

Curriculum Vitae di Lorenzo Amati

Informazioni Generali

- **titoli di studio principali:** Laurea in Astronomia (Università di Bologna, 1991), Dottorato di Ricerca in Astronomia (Università “La Sapienza” di Roma, 1999)
- **professione e qualifica:** **Dirigente di Ricerca presso INAF – OAS Bologna**, via P. Gobetti 93/3, 40129 Bologna (BO)
- **affiliazioni:** IAU (International Astronomical Union), COSPAR (COMmittee on SPace Research), SIGRAV (Società Italiana di Relatività Generale e Fisica della Gravitazione), ISGRG (International Society on General Relativity and Gravitation), European Astronomical Society (EAS), Società Astronomica Italiana (SAIt)
- **contatti:** 051 6398745 (ufficio), 339 5991640 (cell.), lorenzo.amati@inaf.it • **web page:** <http://people.oas.inaf.it/amati>

Sintesi del profilo scientifico e manageriale

- **aree di ricerca principali :** astrofisica delle alte energie, gamma-ray bursts, cosmologia osservativa, strumentazione per l'astrofisica, progetti di missioni per l'astrofisica spaziale
- **pubblicazioni scientifiche:** circa **200** su riviste internazionali con referee ; più di 90 atti di congressi ; decine di circolari IAU e GCN
- **h-index** (NASA/ADS, 28 Agosto 2023) : **55** (citazioni totali : **15550**)
- **presentazioni orali a congressi nazionali ed internazionali :** **184**, di cui **73** su invito
- **ruoli istituzionali ricoperti durante la :** membro del Gruppo di lavoro nazionale tematico “Astrofisica dallo spazio” dell'Agenzia Spaziale Italiana (ASI); membro del comitato nazionale della macroarea “Astrofisica relativistica e astrofisica particellare” dell'INAF; membro del Consiglio di Struttura di INAF – IASF Bologna; “Adjunct Professor” di ICRANet (International Center for Relativistic Astrophysics Network); membro del Collegio dei Docenti del Corso di Dottorato di Ricerca in Fisica dell'Università di Ferrara; Lead Proposer della missione THESEUS (Fase-A di ESA/M5 e Fase-0 di M7)
- **coordinamento di numerosi progetti di ricerca nazionali e internazionali** finanziati da INAF, ASI, Unione Europea
- **interazioni con industrie del settore aerospaziale nell'ambito dello studio e sviluppo di strumentazione per l'astrofisica spaziale** (es, con OHB-Italia, Milano ; GP Advanced Projects, Brescia ; THALES Alenia Spazio, Torino)

Carriera scientifica

Principali titoli di studio e posizioni di ricerca

- **1991: Laurea in Astronomia**, conseguita presso la Facoltà di Scienze Matematiche, Fisiche e Naturali, Università degli studi di Bologna il **19/07/1991**

- **1999: Dottorato di Ricerca in Astronomia**, conseguito presso Università "La Sapienza" di Roma il **06/05/1999**
- **1 Luglio 1998 – 20 Dicembre 2001: Ricercatore (livello III) a tempo determinato** presso Istituto di Studio e Tecnologie sulle Radiazioni Extraterrestri (TESRE), del CNR, Bologna
- **21 Dicembre 2001 – 1 Novembre 2016: Ricercatore (livello III) a tempo indeterminato** presso Istituto di Astrofisica Spaziale e Fisica cosmica – Sezione di Bologna (ex Istituto TESRE), CNR, Bologna, ora INAF – IASF Bologna
- **2 Novembre 2016 - 31 Luglio 2017: Primo Ricercatore (livello II) a tempo indeterminato** presso INAF – IASF Bologna
- **dal 1 Agosto 2017: Dirigente di Ricerca (livello I) a tempo indeterminato** presso INAF – IASF Bologna (ora INAF – OAS Bologna)

Affiliazioni e riconoscimenti

- **1996 – 2002: Membro del “BeppoSAX Team”**
- **2001: Attestato di riconoscimento per l'importante contributo alla missione SAX** rilasciato dal Prof. S. De Julio (Presidente dell' Agenzia Spaziale Italiana) e dal Prof. L. Scarsi (chairman del SAX Steering Committee) a nome dell' Agenzia Spaziale Italiana e del consorzio di Istituti responsabile della missione SAX;
- **da Febbraio 2005: Membro ufficiale dello “Swift team”, premiato nel 2007 col “Rossi Prize”** dall' High Energy Astrophysics Division (HEAD) dell' American Astronomical Society (AAS)
- **Membro della International Astronomical Union (IAU)**, Division D High Energy Phenomena and Fundamental Physics, Division J Galaxies and Cosmology, Division D Commission 44 Space & High Energy Astrophysics.
- **Membro della Società Italiana di Relatività Generale e Fisica della Gravitazione (SIGRAV)**
- **Associato al Committee on Space Research (COSPAR)**
- **Membro della International Society on General Relativity and Gravitation (ISGRG)**
- **Membro della Società Astronomica Italiana (SAIt)**
- **Membro della European Astronomical Society (EAS)**

Principali risultati scientifici

La “Amati relation”

Lo studio dei GRB di BeppoSAX con redshift noto, da me coordinato nel periodo 2000-2002, ha portato alla scoperta di una correlazione tra l'energia totale irradiata assumendo emissione isotropa (E_{iso}) e l'energia di picco dello spettro νF_{ν} ($E_{p,i}$) (Amati et al., A&A, 2002). Questa correlazione, successivamente confermata ed estesa prima ai GRB X-ray rich e agli XRF dalle misure di HETE-2 (Amati, MNRAS, 2006) e successivamente ai GRB ultraenergetici da Fermi (Amati et al., A&A, 2009), viene comunemente citata in letteratura come “Amati relation”. **L'esistenza e l'estensione su diversi ordini di grandezza sia in E_{iso} che in $E_{p,i}$ di questa correlazione hanno importanza fondamentale per i modelli della fisica e geometria dell'emissione dei GRB, l'individuazione e la comprensione di sottoclassi di GRB (Short/long, XRFs, GRB subenergetici), la connessione tra GRB e SN (es., Amati et al. A&A, 2007), l'utilizzo dei GRB per la cosmologia (Amati et al., MNRAS, 2008).**

L'impatto scientifico di questa scoperta è comprovato dall'analisi della letteratura scientifica (al 29 Settembre 2023, da NASA ADS):

- gli articoli Amati et al., A&A, 390, 81 (2002) e Amati, MNRAS, 372, 233, **sono stati citati 1089 e 391 volte**, rispettivamente; il primo è il più citato tra tutti gli articoli che presentano risultati di BeppoSAX.
- in totale, i principali lavori su rivista internazionale con Referee relativi alla correlazione e da me coordinati (oltre ai due precedenti, anche Amati et al. 2007, A&A, 463, 913 ; Amati et al. 2008, MNRAS, 391, 577 e Amati et al. 2009, A&A, 508, 173) **sono stati citati circa 2000 volte.**
- **Il mio nome (Amati) compare nel titolo di 48 articoli / comunicazioni** (di cui 29 articoli su rivista internazionale con Referee) **e nell'abstract di 326 articoli / comunicazioni** (di cui 184 articoli su riviste internazionali con Referee).

Il concetto di missione THESEUS per ESA (M5 e M7)

Il sottoscritto ritiene un risultato e riconoscimento importantissimo della propria esperienza scientifica essere stato proposto dalla fortissima comunità europea sui Gamma-Ray Burst e l'astrofisica multi-messenger come Lead Proposer della proposta THESEUS (Transient High Energy Sources and Early Universe Surveyor) selezionata dall'Agenzia Spaziale Europea (ESA) per uno studio di Fase A (2018-2021) come candidata missione M5 e attualmente (da Novembre 2022) in studio di Fase-0 come candidata M7. Successivamente alla selezione M5, ESA mi ha nominato Lead Scientist, riconoscendomi al tempo stesso il ruolo di PI (Principal Investigator) del consorzio internazionale costituito dalle principali istituzioni e agenzie spaziali di numerosi paesi europei che ha sviluppato e proposto il concetto di missione.

La missione THESEUS ambisce a sfruttare i GRB per lo studio dell'Universo primordiale (prime stelle e galassie, processo di reionizzazione cosmica, *dark energy*) e al tempo stesso fornire un contributo fondamentale alla neonata astrofisica *multi-messenger* (in particolare legata allo studio della sorgenti di onde gravitazionali) e *time-domain*, in grandissimo sviluppo. La collaborazione THESEUS include scienziati e tecnologi di numerosi paesi europei e riscuote un forte interesse anche da parte di scienziati e tecnologi di USA, Cina, Giappone e altri paesi non europei. A livello scientifico, il consorzio include ora più di 500 scienziati europei ed extra-europei. La proposta THESEUS ha ricevuto lettere di esplicito commitment al supporto dell'assessment study (e successive fasi di sviluppo), o di interesse a un suo supporto attivo, da parte delle agenzie / enti di riferimento spaziali di Italia (ASI), UK (UKSA), Spagna (SNP&D&I e CRISA), Danimarca (DTU Space), Polonia (Space Research Center, Polish Academy of Sciences e Ministero dell'Economia, Dipartimento Innovazione e Industria), Repubblica Ceca (Czech Technical University), Slovenia (Space-SI), Francia (CNES), USA (NASA), Ungheria (Ministry of National Development e Hungarian Academy of Sciences).

La Scoperta di una 'edge' transiente nello spettro X e misura del redshift di GRB990705

Questa scoperta, pubblicata sulla rivista Science (Amati et al., 2000, Science, Vol. 981, Pag. 290, 953), è senza precedenti ed è stata permessa dalla notevole accuratezza e calibrazione delle WFC rispetto a strumenti di questo tipo volati sia in precedenza che successivamente. Sono notevoli le implicazioni sull'ambiente *circum-burst* (e quindi la comprensione della natura progenitore). Inoltre, interpretando la 'feature' di assorbimento come un' edge del ferro neutro, è stata possibile la **prima e unica stima del redshift di un GRB basata su misure X**. Tale stima è stata poi confermata dalle misure di spettroscopia ottica della galassia ospite, dimostrando la fattibilità della misura del redshift dei GRB in raggi X e costituendo un importante elemento di caso scientifico per gli esperimenti sui GRB di prossima generazione.

Il contributo all'astrofisica multi-messenger tramite la partecipazione a GRAWITA ed ENGRAVE

Sono membro, fin dalla loro istituzione, delle collaborazioni GRAWITA ed ENGRAVE, la prima a livello INAF e la seconda a livello Europeo, dedicate alla ricerca di controparti elettromagnetiche dei segnali di onde gravitazionali rilevati da LIGO, Virgo ed i futuri rivelatori (KAGRA in primis). In questo contesto, sono co-autore del lavoro che ha pubblicato le osservazioni "multi-wavelength" della prima sorgente di onde gravitazionali dalla fusione di due stelle di neutroni (GW170917), misure che hanno sancito la nascita dell'astrofisica *multi-messenger*. L'articolo Abbott et al., ApJ, 2017, del quale sono co-autore e che riporta questi risultati, ha già più di mille citazioni.

Principali esperienze manageriali

Incarichi formali presso istituzioni scientifiche

- **2007 - 2008: Membro del Gruppo di lavoro tematico “Astrofisica dallo spazio”** dell’Agenzia Spaziale Italiana (ASI)
- **2011 – 2015 e 2018 - 2019: Membro del Comitato di Macroarea Tematica “Astrofisica relativistica e particellare”** dell’Istituto Nazionale di Astrofisica (INAF).
- **2015 – 2017: Membro del Consiglio di Struttura** di INAF – IASF Bologna
- **2018 – 2021: Lead Scientist di ESA** per lo studio di Fase-A/M5 della missione THESEUS
- **2009 – 2016, 2021-: Adjunct Professor** presso la Facoltà scientifica di ICRANet (International Center for Relativistic Astrophysics Network), Ente pubblico di ricerca di diritto internazionale con sede centrale a Pescara (www.icranet.org)
- **2011- 2018, 2022-: Componente del Collegio dei Docenti del corso di Dottorato di Ricerca in Fisica.** dell’Università degli Studi di Ferrara

Ruoli di Coordinamento in Progetti di ricerca finanziati

- 2005-2006: Responsabile di Unità di ricerca del progetto “*Studies of Gamma Ray Bursts and High Energy Sources with Swift*” finanziato nell’ambito del **Contratto ASI-INAF I/023/05/0 “Analisi dati Astrofisica delle Alte energie”**
- 2006: Responsabile del progetto “*Il ruolo della Comptonizzazione nei GRB e nelle sorgenti compatte galattiche ed extra-galattiche*” finanziato nell’ambito del **bando interno IASF – Bologna - Ricerca di base 2006**
- 2006-2007: Responsabile nazionale del progetto “*A Gamma-Ray Burst Monitor (GRBM) for Lobster*” finanziato nell’ambito **Contratto ASI-INAF I/088/06/0 “Studio di Astrofisica delle Alte Energie”** – bando selettivo I Anno
- 2007: Responsabile del progetto “*GRB physics and cosmology with spectral-energy correlations*” finanziato nell’ambito del **bando interno IASF – Bologna - Ricerca di base 2007**

- 2008: Responsabile del progetto ” *Study of an Innovative Broad-band Gamma Ray Bursts and Transient Sources Monitor for Future Opportunity Missions*” finanziato nell’ambito del **bando interno IASF – Bologna - Ricerca di base 2008**
- 2008-2009: Responsabile nazionale del progetto ” *A Gamma-Ray Burst Monitor (GRBM) for LWF on board Spectrum-RG and other soft X-ray all sky monitors*” finanziato nell’ambito **Contratto ASI-INAF I/088/06/0 “Studio di Astrofisica delle Alte Energie” – bando selettivo II Anno**
- 2009-2010: Responsabile nazionale del progetto ” *A GRB Monitor for Lobster and other mission opportunities (SRG, MIRAX)*” finanziato nell’ambito **Contratto ASI-INAF I/088/06/0 “Studio di Astrofisica delle Alte Energie” – bando selettivo III Anno**
- 2009-2010: Responsabile di Unità di ricerca del progetto ” *Study of an Innovative Broad-band Gamma Ray Bursts and Transient Sources Monitor for Future Opportunity Missions*” finanziato nell’ambito del **bando TECNO-INAF 2009**
- 2015-2016 : Responsabile nazionale del progetto ” *A space qualified very broad-band (1 keV - 10 MeV) monolithic detection system for Gamma-Ray Bursts and high-energy transients*” finanziato nell’ambito del **bando TECNO-INAF 2014**
- 2015-2017 : Responsabile scientifico del progetto ” *Cosmological Candles*” finanziato dall’Unione Europea nell’ambito del programma **FP7-PEOPLE-2013-IOF** (Grant Agreement n° **PIOFGA-2013-626267**)
- 2018-2021 : Responsabile scientifico dell’accordo ASI-INAF per il supporto allo studio di fase A della missione THESEUS in selezione ESA/M5 (**Accordo Attuativo ASI-INAF n. 2018-29HH.0**)

Il management dello studio di missione THESEUS per ESA

Il ruolo di Lead Proposer del Consorzio Internazionale di THESEUS, e di responsabile del contributo italiano supportato da accordo attuativo ASI-INAF, durante lo studio di fase A di ESA/M5 (2018-2021) e l’attuale studio come candidata ESA/M7 (dal Novembre 2022) mi ha dato la possibilità di sviluppare ulteriormente le mie capacità ed esperienza nel coordinamento di grandi collaborazioni nazionali ed internazionali, e di interagire in modo continuativo con diverse industrie del settore aerospaziale (es., OHB-Italia, THALES Alenia Spazio, GPAP Advanced Projects), in una sinergia eccellente tra ricerca pubblica e ricerca e sviluppo privati, nonché con i maggiori esperti dell’ASI, che supporta il contributo italiano, e dell’ESA.

Partecipazione a commissioni, valutazioni e comitati

Commissioni di concorso presso INAF e Università

Il sottoscritto è stato membro di diverse commissioni di concorsi in strutture di ricerca INAF e altri enti, tra le quali:

- Membro della Commissione esaminatrice del concorso per un assegno di ricerca presso INAF – IASF Bologna (Bando n. 149/03) (Giugno 2008)
- Membro della Commissione esaminatrice del concorso per un assegno di ricerca presso INAF - IASF Bologna (Bando n. 12/U/2011) (Febbraio 2011)
- Membro della Commissione esaminatrice dei concorsi per assegni di ricerca “Young Scientist” dal titolo “Analisi dati della missione Fermi” e “Analisi dati della missione AGILE” e dell’assegno di ricerca post-doc dal titolo “Analisi dati multifrequenza nel contesto del Cherenkov Telescope Array” presso INAF – Osservatorio Astronomico di Roma (Novembre – Dicembre 2011)
- Membro della commissione di esperti per la procedura concorsuale per la selezione di un ricercatore universitario (MCF) presso l’Università di Nizza (Francia) (Aprile – Maggio 2012)
- Membro della Commissione esaminatrice del concorso per Ricercatore a tempo determinato presso INAF - IASF Bologna (Bando n. 12/U/2011) (Ottobre 2012)
- Membro della Commissione esaminatrice del concorso per una borsa di studio presso INAF - IASF Bologna (Determinazione del Direttore n. 28/2015) (Marzo 2015)
- Membro della Commissione esaminatrice di tre concorsi per Ricercatore a tempo determinato (livello III) presso INAF – OAS Bologna (DD 156, DD 169 e DD170)
- Presidente della Commissione esaminatrice del concorso per tecnologo (livello III) a tempo indeterminato presso INAF - IASF Palermo (Determina Direttore Generale INAF 58/2022) (Novembre – Dicembre 2022)
- Presidente della Commissione esaminatrice del concorso per tecnologo (livello III) a tempo determinato presso INAF - OAS Bologna per il “Supporto attività divulgative” che saranno realizzate nell’ambito della proposta progettuale “IR0000012 – CTA+ Attività di progetto”, Codice Unico Progetto (CUP): C53C22000430006 (2022)

Valutazione di progetti di ricerca

Il sottoscritto ha ricevuto incarichi di valutatore di progetti scientifici da parte di diversi enti nazionali e internazionali, tra i quali:

- Valutatore di proposte scientifiche per la **Czech Science Foundation** (2011)
- Valutatore di progetti scientifici per il **programma SIR del MIUR** (2014)
- Valutatore di progetti scientifici per il **programma H2020** (2018)
- Valutatore di progetti scientifici per Università di Salamanca (Spagna) – **programma USAL4Excellence** supportato dall'UE (2022 e 2023)
- Valutatore di progetti di ricerca per **l'Agenzia Nazionale delle Ricerche (ANR) francese (AAPG)** (2022)
- Presidente della commissione di valutazione dei **Grant INAF 2023 per richieste di supporto a programmi GO, GTO e Data Analysis** (2023)

Inoltre, il sottoscritto è stato referee per l'allocazione di tempo osservativo presso facilities osservative internazionali (es, SUBARU Telescope) **di numerosi articoli per le riviste internazionali** 'Monthly Notices of the Royal Astronomical Society' (MNRAS), "Astronomy & Astrophysics" (A&A), "The Astrophysical Journal" (ApJ), "Journal of Cosmology and Astroparticle Physics" (JCAP), "Publications of the Astronomical Society of Japan" (PASJ), "Advances in Space Research"

Partecipazione a comitati organizzatori di Congressi

Il sottoscritto è stato membro dei comitati organizzatori di numerosi congressi internazionali e nazionali, tra i quali:

- Membro del Comitato Organizzatore del Simposio "*Gamma-Ray Bursts in the Afterglow Era*", Roma dal 3 al 6 Novembre 1998
- Membro del Comitato Organizzatore del "*Secondo Convegno Nazionale su Astrofisica degli Oggetti Compatti*", Bologna dal 19 al 21 Settembre 2001
- Membro del Comitato Organizzatore del Summer Course 2002 "*Mission concept and payload design in X- and Gamma-ray Astronomy*" della International Advanced School "*Leonardo da Vinci*", Bologna, dal 1 al 12 Luglio 2002
- Membro del Comitato Organizzatore del Simposio "*Gamma-Ray Burst in the Afterglow Era: 3rd Workshop*", Roma, dal 17 al 20 Settembre 2002
- Membro dell' International Organizing Committee del congresso "*1st Cesare lattes Meeting*", Rio de Janeiro, dal 25 Febbraio al 3 Marzo 2007

- Membro dell' "International Scientific Advisory Committee" del congresso "Galileo - Xu Guangqi meeting (First)", Shanghai (Cina), dal 26 al 30 Ottobre 2009
- Membro del Comitato Scientifico del Congresso "Dall'eV al TeV: tutti i colori dei GRB – Secondo Congresso Italiano sui Gamma-Ray Bursts", Cefalù, dal 15 al 18 Giugno 2010
- Membro dell' "International Organizing Committee" del congresso "2nd Galileo - Xu Guangqi meeting", Ventimiglia, dal 12 al 17 Luglio 2010
- Membro dell' "International Organizing Committee" del congresso "3rd Galileo - Xu Guangqi meeting", Pechino (Cina), dal 12 al 16 Ottobre 2011

Organizzatore della sessione “Cosmology from GRBs” del congresso “13th Marcel Grossmann Meeting - MG13”, Stoccolma (Svezia), dall’ 1 al 7 Luglio 2012

- Membro del Comitato Scientifico del congresso “III Congresso Nazionale GRB 2012 – Lampi su Napoli”, Napoli, dal 20 al 22 Settembre 2012
- Membro del Scientific Organizing Committee del congresso “Huntsville Gamma Ray Burst Symposium - GRB 2013”, Nashville TN, USA dal 14 al 18 Aprile 2013
- Organizzatore della sessione “Cosmology from GRBs” del congresso “14th Marcel Grossmann Meeting - MG13”, Roma (Italia), dall’ 12 al 18 Luglio 2015
- Organizzatore della sessione “Cosmology from GRBs” del congresso “15th Marcel Grossmann Meeting - MG14”, Roma (Italia), Luglio 2018
- Organizzatore della sessione “Cosmology and multi-messenger astrophysics with Gamma-Ray Bursts” del congresso “European Week of Astronomy and Astrophysics 2019 (EWASS19)”, Lione (Francia), Giugno 2019
- Membro del Scientific Organizing Committee del congresso “Ioffe Workshop on GRBs and other transient sources: 25 Years of Konus-Wind Experiment”, Saint Petersburg, Russia, Settembre 2019
- Membro del Scientific Organizing Committee del congresso “3rd Nanjing GRB meeting”, Nanchino, Cina, Maggio 2024

Attività didattica e divulgativa

Attività didattica

- 2016-2018 e 2021 - 2023: **Corso per il Dottorato di Ricerca in Fisica** su “Physics and Cosmology with Gamma-Ray Bursts”, Istituto Universitario di Studi Superiori IUSS-Ferrara 1391- Università degli Studi di Ferrara
- 2021: Lecturer per il **Master di secondo Livello su Space Missions Science Design and Applications** dell’Università di Bologna

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- 2022 – 2023: Lecturer per il **corso di Astronomical Instrumentation, Laurea Magistrale in Astrofisica e Cosmologia**, Università di Bologna
- 2023: Lecturer per la **“Seventh Advanced School: Multi-Messenger Astrophysics”** di INPE, Brasile
- 2005: **Lezione per la International School of Space Science 2005: Gamma-Ray Bursts: from Astrophysics to Cosmology** su *“Gamma-Ray Bursts observations: prompt emission”*, L’Aquila (Settembre 2005)
- 2007: **Ciclo di lezioni alla Scuola Nazionale di Astrofisica, IX Ciclo, II corso** su *“Empirical correlations in Gamma-Ray Bursts”*, Venezia (Settembre 2007)
- 2010: **Lezioni per l’International Relativistic Astrophysics Ph. D (IRAP PhD)** su *“Spectral Analysis Techniques”* e *“Spectrum-energy correlations in gamma ray bursts”*, Università degli Studi di Ferrara (Marzo 2010)
- 2010: **Lezioni per l’IRAP Ph.D. Erasmus Mundus** su *“Gamma-Ray Bursts: open issues, new frontiers and future perspectives”*, University of Nice-Sophia Antipolis (Francia) (Settembre 2010)
- 2011: **Corso per il Dottorato di Ricerca in Fisica** su *“Spectrum-energy correlations in gamma ray bursts and cosmological/astrophysical implications”*, Istituto Universitario di Studi Superiori IUSS-Ferrara 1391- Università degli Studi di Ferrara (Gennaio – Febbraio 2011)
- 2012: **Corso per il Dottorato di Ricerca in Fisica** su *“Spectrum-energy correlations in gamma ray bursts and cosmological/astrophysical implications”*, Istituto Universitario di Studi Superiori IUSS-Ferrara 1391- Università degli Studi di Ferrara (Marzo – Luglio 2012)
- 2012: **Lezioni per l’IRAP Ph.D. Erasmus Mundus** su *“Cosmology with Gamma-Ray Bursts”*, University of Nice-Sophia Antipolis (Francia) (Settembre 2012)
- 2013: **Lezioni per IRAP Ph.D. Erasmus Mundus school** su *“The $E_{p,i}$ – intensity correlation in GRBs”* e *“GRB science with LOFT”*, University of Nice-Sophia Antipolis (Francia) (Settembre 2013)
- 2014: **Lezioni per Third Bego Rencontres - IRAP Ph.D. Erasmus Mundus school** su *“Measuring Cosmological Parameters with Gamma-Ray Bursts”* e *“Gamma-Ray Bursts: open issues and perspectives”*, University of Nice-Sophia Antipolis (Francia)

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- 2017: Lecturer per la **NewCompStar School 2017 - "Neutron stars: theory, observations and gravitational waves emission"**, Sofia, Bulgaria

Supervisione di Laureandi e Dottorandi

Il sottoscritto è stato **Co-relatore** di numerose Tesi di Laurea e Dottorato, tra le quali:

Valentino Esposito, “Errori sistematici nella relazione E_p - E_{iso} per i Gamma Ray Bursts”, Laurea triennale in Fisica, Università di Ferrara, a.a. 2006/2007

Simone Dichiarà, “Studio degli effetti di selezione nella correlazione E_p - E_{iso} dei GRB”, Laurea Magistrale in Astronomia, Università di Bologna, a.a. 2009/2010

Carolina Robustini, “Energetica degli afterglow X dei Gamma-Ray Burst di Swift di distanza nota”, Laurea in Fisica, Università di Ferrara, a.a. 2009/2010

- Renato Martone, “Analisi degli 'outliers' della Relazione di Amati per i Gamma-ray Bursts”, Laurea Magistrale in Fisica, Università Federico II di Napoli, a.a. 2015/2016
- Chiara Giuri, “The time-resolved E_p -L correlation in GRBs: characterization and implications”, Laurea Magistrale in Astrofisica e Cosmologia, Università di Bologna, a.a. 2016/2017
- Manuele Maistrello, “Study of the dispersion of the time-resolved Amati correlation within a sample of Fermi long gamma-ray bursts with known redshift”, Laurea Magistrale in Fisica, Università di Ferrara, a.a. 2022/2023
- Simone Dichiarà, “A Multiwavelength view of the transient sky: gamma-ray bursts and other fast transients from optical to gamma-rays”, Dottorato di Ricerca in Fisica, XXVII Ciclo, Università di Ferrara (2012 – 2015)
- Disha Sawant, “GRB cosmology through the E_p – Intensity correlation”, IRAP PhD Erasmus Mundus, Università di Ferrara (2013 - 2016)
- Onelda Bardho, “Understanding the physics behind the correlations in gamma-ray burst data”, IRAP PhD Erasmus Mundus, Università di Nizza (2013 – 2016)
- Il sottoscritto è **membro del Collegio dei Docenti del Dottorato di Ricerca in Fisica** dell'Università di Ferrara (nel periodo 2011-2018 e dal 2022)

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Seminari selezionati

Il sottoscritto ha tenuto numerosi seminari relativi alla propria attività di ricerca presso istituti di ricerca e Università nazionali e internazionali, tra i quali:

- 8 Giugno 2004, **Università di Roma “La Sapienza”, Roma:** *“Il colpo di coda di BeppoSAX nello studio dei GRB: la relazione $E_{p,i} - E_{iso}$ ”*
- 25 Marzo 2005, **Observatoire Midi-Pyrénées (OMP), Tolosa (Francia):** *“Gamma-Ray Bursts after the BeppoSAX revolution: the new frontiers”*

14 Aprile 2005, **Osservatorio Astrofisico di Arcetri, Firenze,** *“Gamma-Ray Bursts after the BeppoSAX revolution: the new frontiers”*

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7 Dicembre 2006, **Osservatorio Astronomico di Trieste, Trieste:** “*Gamma-Ray Bursts: from astrophysics to cosmology*”

23 Febbraio 2007, **Osservatorio Astronomico di Roma, Monte Porzio Catone (RM):** “*The E_p , i – Eiso correlation in Gamma-Ray Bursts*”

- 30 Aprile 2008, **Thüringer Landessternwarte 'Karl Schwarzschild' ,Tautenburg (Germania),** “ *GRB physics and cosmology with spectrum-energy correlations*“
- 14 Dicembre 2009, **ICRANet Coordinating Center, Pescara:** “*The E_p , i - Eiso correlation: status and perspectives*”
- 10 Giugno 2010, **Brazilian National Institute for Space Research (INPE), San Jose dos Campos (Brasile),** “*Gamma-Ray Bursts: recent advances and new frontiers*”
- 1 Marzo 2011, **ASI Science Data Center (ASDC), Roma,** “*GRB physics and cosmology with the E_p , i - Eiso correlation*”
- 1 Aprile 2011, **Astronomical Observatory of the Jagiellonian University, Cracovia (Polonia),** “*Gamma-Ray Bursts as cosmological probes*”
- 17 Aprile 2012, **Oskar Klein Centre for Cosmoparticle Physics, Stoccolma (Svezia),** “*Cosmology with Gamma-Ray Bursts*”
- 29 Maggio 2012, **University of Ljubljana, Lubiana (Slovenia):** “*Cosmology with GammaRay Bursts*”
- 24 Aprile 2013, **NASA – Goddard Space Flight Center, Greenbelt MD (USA):** “*GRB cosmology through the E_p – Intensity correlation*”
- 15 Aprile 2014, **Dark Cosmology Centre – Niels Boht Institute, University of Copenhagen:** “*Measuring Cosmological Parameters with Gamma-Ray Bursts*”
- 22 Maggio 2014, **The Hebrew University of Jerusalem - Racah Institute of Physics ,Jerusalem:** “*Shedding light on GRBs with next generation observatories*”
- 24 Marzo 2015, **Scuola Normale Superiore di Pisa, Pisa:** “*Shedding light on the dark Universe with GRBs*”

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- 27 Ottobre 2015, **Kavli Institute for Particle Astrophysics and Cosmology (KIPAC), Stanford University, USA**: “Shedding light on the «dark» Universe with GammaRay Bursts”

19 Dicembre 2019, **University of Leicester (UK)**: “The Transient High-Energy Sky and Early Universe Surveyor (Professor George Fraser Memorial Lecture)”

10 Giugno 2022, **Deutsches Elektronen-Synchrotron (DESY), Zeuthen (Berlino), Germania**: “Cosmology and Multi-Messenger Astrophysics with Gamma-Ray Bursts”

12 Maggio 2023, **Università di Bergen, Norvegia**: “The THESEUS space mission concept”

Attività editoriali

- Editor degli Atti del Congresso internazionale “Gamma-Ray Burst in the Afterglow Era”, Roma, 18-22 ottobre 2004, pubblicato dalla Società Italiana di Fisica (SIF) nel volume Il Nuovo Cimento C, vol. 28, Issue 3
- Editor degli Atti del Congresso internazionale “THESEUS Workshop 2017”, Napoli, Ottobre 2017, pubblicato nelle Memorie della Società Astronomica Italiana (Mem SAIt), vol. 89, 2018
- Editor del volume speciale della rivista Experimental Astronomy “Science with the Transient High Energy Sky and Early Universe Surveyor (THESEUS)”, Vol. 52, Issue 3, Dicembre 2021
- Editor del volume speciale della rivista Universe “GRBs Phenomenology, Models and Applications: A Beginner Guide”, Vol.9, 2023
- Membro dell’ “Editorial board” delle seguenti riviste internazionali:
 - International Scholarly Research Notices, pubblicata da Hindawi, <http://www.hindawi.com/journals/isrn/>
 - Advances in Astronomy, pubblicata da Hindawi, <https://www.hindawi.com/journals/aa/>
 - Galaxies, pubblicata da MDPI, <http://www.mdpi.com/journal/galaxies>

Attività divulgative

- Articoli e interviste per le riviste divulgative “Le Stelle”, “Spacemag”, “Darwin”, “Cosmo”
- Articoli e interviste sul **notiziario WEB dell’INAF “Media INAF”**, www.media.inaf.it
- Conferenze divulgative (es., alla rassegna “Notti d’Estate ad Arcetri”, 27 Giugno 2023).

Relazioni a congressi nazionali ed internazionali

Elenco generale delle mie presentazioni a Congressi su invito (*invited*), sollecitazione (*solicited*) o selezione del Comitato Scientifico (*contributed*)

197) **August 2023** International Cosmic Rays Conference (ICRC) 2023

Nagoya (virtual), Japan

(*oral presentation*)

196) **July 2023** European Astronomical Society Annual meeting - EAS 2023

Cracow, Poland

(*oral presentation*)

195) **July 2023** 10th GRavitation and AstroParticle Physcs in Amsterdam (GRAPPA) Conference

Amsterdam, The Netherlands

(*oral presentation*)

194) **June 2023** 18th Italian-Korean Symposium on Relativistic Astrophysics

Pescara (virtual), Italy

(*oral presentation*)

193) **June 2023** The Fifth Zeldovich Meeting

Yerevan (virtual), Armenia

(*invited oral presentation*)

192) **June 2023** The X-Ray Universe 2023

Athens, Greece

(*oral presentation*)

191) **June 2023** Multifrequency Behaviour of High Energy Cosmic Sources - XIV

Palermo (Mondello), Italy

(*invited oral presentation*)

190) **May 2023** LXVII National Congress of the Italian Astronomical Society (SAIt)

Camerino, Italy

(*oral presentation*)

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189) **April 2023** IberiCos 2023 17th Iberian Cosmology Meeting
Ponte de Lima, Portugal
(*oral presentation*)

188) **March 2023** MAGIC23 - Matter, Astrophysics, Gravitation, Ions and Cosmology
Praia do Rosa (virtual), Brazil
(*oral presentation*)

187) **February 2023** Universum IV
Trento, Italy
(*oral presentation*)

186) **January 2023** High redshift Gamma-Ray-Bursts in the JWST era
Sexten, Italy

(two oral presentations)

185) **December 2022** 13th International Workshop on Astronomical X-Ray Optics (AXRO 2022)
Prague, Czech Republic
(two oral presentations)

184) **November 2022** Third Athena Scientific Conference 2022: Exploring the Hot and Energetic
Universe
Barcelona, Spain
(oral presentation)

183) **October 2022** INTEGRAL 20 Years - Two Decades of High-Energy Astronomy with
INTEGRAL
Darmstadt, Germany
(oral presentation)

182) **September 2022** International conference PUMA22 - Probing the Universe with Multimessenger
Astrophysics
Sestri Levante, Italy
(oral presentation)

181) **September 2022** 31st Texas Symposium on Relativistic Astrophysics
Prague, Czech Republic
(oral presentation)

180) **September 2022** V Congresso Nazionale GRB
Trieste, Italy
(invited oral presentation)

179) **August 2022** XI International Conference on New Frontiers in Physics (ICNFP 2022) Crete
(remote), Greece
(oral presentation)

178) **July 2022** The 6th Bego Rencontre Summer School
Pescara, Italy
(invited oral presentation)

177) **July 2022** 7th Heidelberg International Symposium on High-Energy Gamma-Ray Astronomy
Barcelona, Spain
(oral presentation)

176) **June 2022** EAS 2022 - European Astronomical Society Annual Meeting Valencia,
Spain
(invited oral presentation)

175) **June 2022** OAS Very High-Energy Meeting: towards ASTRI and CTA Bologna,
Italy
(oral presentation)

174) **May 2022** 33rd Rencontres de blois - Exploring the dark Universe Blois,
France
(oral presentation)

173) **May 2022** Third European Physical Society Conference on Gravitation Nice,
France
(oral presentation)

172) **May 2022** Prof. Remo Ruffini Festschrift. A conference in celebration of Prof. Remo Ruffini 80th
birthday Nice, France
(invited oral presentation)

171) **April 2022** ASI Workshop on "Themes and objectives for future scientific space programmes"
Roma (virtual), Italy
(oral presentation)

170) **March 2022** 56th Rencontres de Moriond 2022 - Very High Energy Phenomena in the Universe La
Thuile (AO), Italy
(oral presentation)

169) **December 2021** Amati Fest at ICRANet
Pescara, Italy
(invited oral presentation)

168) **December 2021** Neutron Star Astrophysics at the Crossroads: Magnetars and the Multimessenger
Revolution
Urbino (virtual), Italy
(oral presentation)

167) **November 2021** The Paris-Saclay AstroParticle Symposium 2021
Paris-Saclay, France
(invited oral presentation)

166) **November 2021** ICRANet-ISFAHAN Astronomy Meeting
Isfahan (virtual), Iran
(invited oral presentation)

165) **October 2021** INTEGRAL: towards the third decade of X and Gamma ray observations
Cagliari, Italy
(oral presentation)

164) **August 2021** 10th International Conference on New Frontiers in Physics (ICNFP 2021) Crete
(virtual), Greece
(oral presentation)

163) **July 2021** Sixteenth Marcel Grossmann Meeting - MG16
Rome (virtual), Italy

(invited oral presentations)

162) **June 2021** European Astronomical Society Annual Meeting (EAS 2021)

Leiden (virtual), The Netherlands

(solicited oral presentation)

161) **June 2021** Second Gravi-Gamma Workshop

Volterra (virtual), Italy

(invited oral presentation)

160) **April 2021** Ninth International Fermi Symposium

Johannesburg (virtual), South Africa

(oral presentation)

159) **March 2021** THESEUS Conference 2021

Geneva (virtual), Switzerland

(invited oral presentation)

158) **January 2021** 43rd COSPAR Scientific Assembly

Sidney (virtual), Australia

(oral presentation)

157) **December 2020** SPIE Astronomical Telescopes + Instrumentation 2020

San Diego (virtual), USA

(oral presentation)

156) **December 2020** Exploring the transient Universe into the 2030s

London (virtual), UK

(invited oral presentation)

155) **November 2020** HERMES-SP/TB 1st Workshop: Astrophysics with Cubesat

Trieste (virtual), Italy

(invited oral presentation)

154) **October 2020** Coimbra AHEAD2020 Progress Meeting on Space Experiments for HE

Astrophysics & Multi-messenger Astronomy

Coimbra (virtual), Portugal

(invited oral presentation)

153) **September 2020** The Fourth Zeldovich virtual meeting

Minsk (virtual), Belarus

(oral presentation)

152) **September 2020** 9th International Conference on New Frontiers in Physics (ICNFP 2020) Crete

(virtual), Greece

(invited oral presentation)

151) **July 2020** Technological Advances in X-ray Astronomy: strategizing the path forward Bologna (virtual), Italy
(invited oral presentation)

150) **February 2020** UK & Italy Explore New Frontiers in Gamma-ray Astrophysics Roma, Italy
(invited oral presentation)

149) **December 2019** 30th Texas Symposium on Relativistic Astrophysics Portsmouth, UK
(oral presentation)

148) **November 2019** 1st International Conference on Applied Physics - ICAP 2019 Tirana, Albania
(invited oral presentation)

147) **October 2019** The era of collaborative multi-wavelength and multi-messenger astronomy: science and technology - The 2nd Pietro Baracchi Conference Firenze, Italy
(oral presentation)

146) **September 2019** The extragalactic explosive Universe: the new era of transient surveys and datadriven discovery Munich, Germany
(oral presentation)

145) **September 2019** Ioffe Workshop on GRBs and other transient sources: 25 Years of Konus-Wind Experiment Saint Petersburg, Russia
(invited oral presentation)

144) **July 2019** High Energy Phenomena in Relativistic Outflows VII (HEPRO VII) Barcelona, Spain
(invited oral presentation)

143) **July 2019** 22nd International Conference on General Relativity and Gravitation Valencia, Spain
(oral presentation)

142) **June 2019** European Week of Astronomy and Space Science - EWASS 2019 Lyon, France
(invited oral presentation)

141) **May 2019** Gamma-Ray Bursts and Related Astrophysics in Multi-Messenger Era Nanjing, China
(invited oral presentation)

140) **April 2019** 10th Einstein Telescope Symposium Orosei (NU), Italy

(oral presentation)

139) **February 2019** 12th INTEGRAL Conference and 1st AHEAD Gamma-Ray Workshop Geneva, Switzerland

(solicited oral presentation)

138) **February 2019** Cosmic Beacons

Sexten, Italy

(oral presentation)

137) **December 2018** First Italian SOXS workshop

Pavia, Italy

(oral presentation)

136) **December 2018** The II National Workshop of SKA science and technology

Bologna, Italy

(oral presentation)

135) **October 2018** The multi-messenger astronomy: gamma-ray bursts, search for electromagnetic counterparts to neutrino events and gravitational waves

Nizhnij Arkhyz and Terskol, Russia

(oral presentation)

134) **September 2018** Exploring the Hot and Energetic Universe: The second scientific conference dedicated to the Athena X-ray observatory

Palermo, Italy

(invited oral presentation)

133) **September 2018** SIGRAV 2018 - Black holes: Theory and Observations

Cagliari, Italy

(invited oral presentation)

132) **July 2018** Fifteenth Marcel Grossmann Meeting - MG15

Roma, Italy

(invited plenary oral presentation)

131) **June 2018** XMM-Newton 2018 Science Workshop - Time-Domain Astronomy: A High Energy View

Madrid, Spain

(oral presentation)

130) **May 2018** Mondello Workshop 2018 "Frontier Research in Astrophysics - III" Palermo, Italy

(invited oral presentation)

129) **May 2018** AGILE 16th Science Workshop "Fast and AGILE: Multimessenger Astrophysics and Beyond"

Roma, Italy

(invited oral presentation)

128) **May 2018** LXII Congress of the Italian Astronomical Society (SAIt) Teramo,
Italy

(oral presentation)

127) **April 2018** UniVersum 2018
Bologna, Italy

(oral presentation)

126) **April 2018** European Week of Astronomy and Space Science - EWASS 2018 Liverpool,
UK

(two oral presentations)

125) **March 2018** PAF'T 2018 - Current Problems in Theoretical Physics
Salerno, Italy

(oral presentation)

124) **March 2018** Life on Earth and beyond: emergence, survivability, and impact on the environment
Bertinoro (FC), Italy

(oral presentation)

123) **March 2018** GRAvitational-wave Science&technology Symposium (GRASS 2018) Padova,
Italy

(oral presentation)

122) **January 2018** Clues on GRB origin from chemical evolution models Sesto
(BZ), Italy

(oral presentation)

121) **December 2017** X Congresso Nazionale Oggetti Compatti
Padova, Italy

(solicited oral presentation)

120) **December 2017** 10th International Workshop on Astronomical X-Ray Optics (AXRO 2017)
Prague, Czech Republic

(oral presentation)

119) **November 2017** GW170817 - Italian contributions to the dawn of the multi-messenger astronomy
L'Aquila, Italy

(oral presentation)

118) **October 2017** INTEGRAL Symposium 2017
Venice, Italy

(oral presentation)

117) **October 2017** THESEUS Workshop 2017
Napoli, Italy

(Chair of the SOC and review presentation)

116) **September 2017** NewCompStar School 2017 - "Neutron stars: theory, observations and gravitational waves emission"

Sofia, Bulgaria

(invited lecturer)

115) **June 2017** European Week of Astronomy and Space Science (EWASS 2017)

Prague, Czech Republic

(two oral presentations)

114) **June 2017** Multifrequency Behaviour of High Energy Cosmic Sources - XII Palermo, Italy

(invited oral presentation)

113) **June 2017** The X-ray Universe 2017

Roma, Italy

(oral presentation)

112) **May 2017** 15th AGILE Workshop "AGILE is 10"

Roma, Italy

(invited oral presentation)

111) **February 2017**

High Throughput X-ray Astronomy in the eXTP Era Roma, Italy

(solicited oral presentation)

110) **February 2017** Bright & Dark Universe

Napoli, Italy

(oral presentation)

109) **December 2016** 9th International Workshop on Astronomical X-Ray Optics (AXRO 2016)

Prague, Czech Republic

(invited oral presentation)

108) **November 2016** EXtrAS (Exploring the X-ray Transient and variable Sky) Workshop

Pavia, Italy

(oral presentation)

107) **November 2016** IV Italian National Workshop on GRBs

Bergamo, Italy

(invited session chair/ rapporteur and oral presentation)

106) **October 2016** 11th Workshop on Science with the New generation of High Energy Gamma-ray Experiments (SCINEGHE16)

Pisa, Italy

(oral presentation)

105) **September 2016** SIGRAV 2016 XXII Conference - A Century of General Relativity Cefal,
Italy
(*invited oral presentation*)

104) **September 2016** Astrophysical Probes of Fundamental Physics Ferrara,
Italy
(*lecturer*)

103) **July 2016** Signals from the Deep Past - Unveiling Early Cosmic Structures Valletta,
Malta
(*oral presentation*)

102) **July 2016** European Week of Astronomy and Space Science (EWASS 2016) Athenis,
Greece
(*oral presentation*)

101) **June 2016** SPIE Astronomical Telescopes + Instrumentation
Edinburgh, UK
(*oral presentation*)

100) **December 2015** 28th Texas Symposium on Relativistic Astrophysics
Geneve, Switzerland
(*two oral presentations*)

99) **December 2015** Lagrange Institute Conference "Cosmology and First Light" Paris,
France
(*oral presentation*)

98) **November 2015** International Conference "Albert Einstein and General Theory of Relativity"
Tirana, Albania
(*invited oral presentation*)

97) **September 2015** IX Italian National Workshop on Compact Objects (CNOX IX) Monte
Porzio Catone - Rome, Italy
(*oral presentation*)

96) **September 2015** Astrophysical Probes of Fundamental Physics Ferrara,
Italy
(*lecturer*)

95) **July 2015** Fourteenth Marcel Grossmann Meeting - MG14
Roma, Italy
(*invited oral presentation*)

94) **April 2015** ISSI-BJ Workshop on Gamma-Ray Bursts: a tool to explore the young Universe Beijing,
China
(*invited oral presentation*)

93) **December 2014** 7th International Workshop on Astronomical X-Ray Optics (AXRO 2014) Prague, Czech Republic
(*invited oral presentation*)

92) **December 2014** Swift: 10 Years of Discoveries
Rome, Italy
(*invited oral presentation*)

91) **September 2014** Ioffe Workshop on GRBs and other transient sources: 20 Years of Konus-Wind Experiment
Saint Petersburg, Russia
(*invited oral presentation*)

90) **September 2014** Third Bego Rencontres - IRAP Ph.D. Erasmus Mundus school Nice, France
(*lecturer*)

89) **July 2014** The first billion years of galaxies and black holes
Sesto (Sexten) (BZ), Italy
(*invited oral presentation*)

88) **June 2014** The Unquiet Universe
Cefalu' (PA), Italy
(*solicited oral presentation*)

87) **May 2014** LVIII Congress of the Italian Astronomical Society (SAIt) Milano, Italy
(*invited oral presentation*)

86) **April 2014** Bologna High Energy Meeting (BOHEME) 2014 Bologna, Italy
(*oral presentation*)

85) **October 2013** Photons, Neutrinos and Gravitational Waves: a multi-messenger search of high energy astrophysical sources Acco, Israel
(*invited oral presentation*)

84) **October 2013** Second Annual Moscow GRB Conference: Gamma-Ray Bursts New Missions To New Science
Moscow, Russia
(*invited oral presentation*)

83) **September 2013** VIII Italian National Workshop on Compact Objects (CNOC VIII)
Ferrara, Italy
(*oral presentation*)

82) **July 2013** European Week of Astronomy and Space Science (EWASS) 2013 Turku, Finland
(*two oral presentations*)

81) **June 2013** First LOFT UK Meeting
London, UK
(*invited oral presentation*)

80) **May 2013** Frascati Workshop 2013 - Multiwavelength behaviour of High-Energy Astrophysical Sources
Palermo, Italy
(*invited oral presentation*)

79) **May 2013** Second Bego Scientific Rencontres Meeting
Nice, France
(*two oral presentations as lecturer*)

78) **April 2013** Huntsville Gamma Ray Burst Symposium - GRB 2013
Nashville TN, USA
(*short oral / poster presentation and member of the Scientific Organizing Committee*)

77) **January 2013** Scientific perspectives in the MeV domain
Paris, France
(*oral presentation*)

76) **October 2012** XX SIGRAV Conference
Napoli, Italy
(*invited oral presentation*)

75) **September 2012** Second LOFT Science Meeting
Toulouse, France
(*oral presentation*)

74) **September 2012** Third Italian National Workshop on GRBs - "Lampi su Napoli" Napoli, Italy
(*oral presentation*)

73) **July 2012** 13th Marcel Grossmann Meeting - MG13
Stockholm, Sweden
(*solicited oral presentation*)

72) **June 2012** 9th Workshop on Science with the New Generation of High Energy Gamma-ray Experiments
Lecce, Italy
(*invited oral presentation*)

71) **June 2012** First National Meeting on Science and Technology with SKA - The Italian pathway to SKA Rome, Italy

(invited oral presentation)

70) **May 2012** Gamma-Ray Bursts 2012 Conference
Munich, Germany
(oral presentation)

69) **March 2012** Death of Massive Stars: Supernovae & Gamma-Ray Bursts Nikko,
Japan
(oral presentation)

68) **November 2011** Swift and the surprising sky - The first 7 years of Swift
Milano, Italy
(oral presentation)

67) **October 2011** LOFT Science Meeting
Amsterdam, The Netherlands
(oral presentation)

66) **October 2011** Third Galileo - Xu Guangqi meeting
Beijing, China
(invited oral presentation)

65) **October 2011** IRAP Ph.D. Erasmus Mundus Workshop
Les Houches, France
(invited lecturer)

64) **September 2011** Second Ferrara Workshop on X-ray Astrophysics up to 511 keV Ferrara,
Italy
(oral presentation)

63) **July 2011** Chemical Evolution of GRB Host Galaxies
Sexten - Sesto Pusteria (BZ), Italy
(oral presentation)

62) **July 2011** 12th Italian-Korean Symposium on Relativistic Astrophysics
Pescara, Italy
(oral presentation)

61) **May 2011** Frascati Workshop 2011: Multifrequency Behaviour of High Energy Cosmic Sources
Vulcano (ME), Italy
(invited oral presentation)

60) **May 2011** GRBs as probes
Como, Italy
(oral presentation)

59) **November 2010** Gamma Ray Bursts 2010 Conference
Annapolis MD, USA

(oral presentation)

58) **September 2010** 8th Workshop on Science with the New Generation of High Energy Gamma-ray Experiments

Trieste, Italy

(oral presentation)

57) **July 2010** The second Galileo - Xu Guangqi meeting

Ventimiglia, Italy

(oral presentation)

56) **May 2010** Vulcano Workshop 2010 - Frontier Objects in Astrophysics and Particle Physics Vulcano, Italy

(invited oral presentation)

55) **May 2010** 54th Meeting of the Italian Astronomical Society (SAIT) Napoli,

Italy

(oral presentation)

54) **April 2010** 8th AGILE Mini-Workshop - The Third Birthday

Bologna, Italy

(oral presentation)

53) **September 2009** The Shocking Universe

Venice, Italy

(Solicited oral presentation)

52) **July 2009** Twelfth Marcel Grossmann Meeting

Paris, France

(Invited oral presentation)

51) **June 2009** 6th Italian-Sino Workshop on Relativistic Astrophysics Pescara,

Italy

(oral presentation)

50) **May 2009** Frascati Workshop 2009: Multifrequency Behaviour of High Energy Cosmic Sources

Vulcano (ME), Italy

(Invited oral presentation)

49) **May 2009** 53rd Meeting of the Italian Astronomical Society (SAIT) Pisa,

Italy

(oral presentation)

48) **February 2009** 44th Rencontres de Moriond - Very High Energy Phenomena in the Universe

La Thuile, Italy

(invited oral presentation)

47) **October 2008** Third Biennial Leopoldina Conference on Dark Energy

Muenchen, Germany
(*poster presentation*)

46) **September 2008** Workshop: "Probing Stellar Populations out to the Distant Universe" Cefalu' (PA), Italy
(*oral presentation*)

45) **July 2008** Third Stuckelberg Workshop
Pescara, Italy
(*oral presentation*)

44) **July 2008** Workshop "Dark Energy and Dark Matter"
Lyon, France
(*oral presentation*)

43) **May 2008** Vulcano Workshop 2008: Frontier Objects in Astrophysics and Particle Physics Vulcano (ME), Italy
(*invited oral presentation*)

42) **May 2008** 52th Meeting of the Italian Astronomical Society (SAIT) Teramo, Italy
(*oral presentation*)

41) **March 2008** Workshop "43rd Rencontres de Moriond - Cosmology"
La Thuile, Italy
(*oral presentation*)

40) **October 2007** Workshop "Five years of INTEGRAL"
Cagliari, Italy
(*oral presentation*)

39) **September 2007** National School of Astrophysics - Cycle IX, Course II Venice, Italy
(*two lectures*)

38) **August 2007** Workshop "A century of cosmology: past, present and future" Venice, Italy
(*poster presentation*)

37) **July 2007** 4th Italian-Sino Workshop: astrophysics at $z > 6$
Pescara, Italy
(*oral presentation*)

36) **June 2007** 10th Italian-Korean Symposium on Relativistic Astrophysics Pescara, Italy
(*oral presentation*)

35) **June 2007** *V1th Marseille International Cosmology Conference: "Energetic events in the universe: from physics to Cosmology"*

Marseille, France

(*invited oral presentation*)

34) **May 2007** *Workshop "Simbol-X: the hard X-ray universe in focus"*

Bologna, Italy

(*oral presentation*)

33) **March 2007** *Workshop "070228: the next decade of Gamma-Ray Burst afterglow"*

Amsterdam, The Netherlands

(*oral presentation*)

32) **December 2006** *EDGE General Meeting*

Roma, Italy

(*oral presentation*)

31) **November 2006** *Meeting of the Italian Swift collaboration*

Merate, Italy

(*oral presentation*)

30) **July 2006** *Eleventh Marcel Grossmann Meeting on General Relativity*

Berlin, Germany

(*two oral presentation*)

29) **June 2006** *4th Workshop on: Science with the New Generation of High Energy Gamma-ray Experiments*

Portoferraio, Isola d'Elba, Italy

(*invited oral presentation*)

28) **June 2006** *SWIFT and GRBs: Unveiling the Relativistic Universe*

Venice, Italy

(*solicited oral presentation*)

27) **November 2005** *Relativistic Astrophysics and Cosmology: the Einstein's Legacy*

Munich, Germany

(*oral presentation*)

26) **September 2005** *International School of Space Science 2005: Gamma-Ray Bursts: from Astrophysics to Cosmology*

L'Aquila, Italy

(*invited lecture*)

25) **May 2005** *Frascati Workshop 2005 Multifrequency Behavior of High Energy Cosmic Sources* Vulcano, Italy

(*invited oral presentation*)

24) **October 2004** *Fourth Workshop Gamma-Ray Bursts in the Afterglow Era* Roma, Italy

(*solicited oral presentation*)

23) **July 2004** 35th COSPAR Scientific Assembly

Paris, France

(*poster presentation*)

22) **June 2004** Second Workshop on *Science with the new generation of high energy Gamma-ray experiments* Bari, Italy

(*oral presentation*)

21) **April 2004** XLVIII Congresso della Società Astronomica Italiana *SAIT 2004* Milano, Italy

(*invited oral presentation*)

20) **December 2003** Third National Workshop on *Compact Object Astrophysics (CNOC)* Monte Porzio Carone (RM), Italy

(*oral presentation*)

19) **August 2003** JENAM Conference 2003 - Minisymposium *Physics of Gamma-Ray Bursts* Budapest, Hungary

(*invited oral presentation*)

18) **May - June 2003** Frascati Workshop 2003 *Multifrequency Behavior of High Energy Cosmic Sources* Vulcano, Italy

(*invited oral presentation*)

17) **May 2003** International Workshop *The Restless High Energy Universe*

Amsterdam, NL

(*poster presentation*)

16) **September 2002** Third Symposium *Gamma-Ray Bursts in the Afterglow Era* Roma

(*oral presentation* and **member of the Local Organizing Committee**)

15) **July 2002** International Advanced School "Leonardo da Vinci" - Summer Course 2002: *Mission concept and payload design in X- and Gamma-ray Astronomy*

Bologna, Italy

(**Member of the School Organizing Committee**)

14) **December 2001** First National Workshop on *Gamma-Ray Bursts*

Monte Porzio Catone, Italy

(*oral presentation*)

13) **September 2001** Second National Workshop on *Compact Object Astrophysics (CNOC)* Bologna, Italy

(*oral presentation* and **member of the Local Organizing Committee**)

12) **May 2001** Frascati Workshop 2001 *Multifrequency Behavior of High Energy Cosmic Sources* Vulcano, Italy

(oral presentation)

11) **May 2001** XLV Congresso della Società Astronomica Italiana *SAIT 2001* Bologna
(oral presentation)

10)) **October 2000** Secondo Symposium *Gamma-Ray Bursts in the Afterglow Era* Roma
(oral presentation)

9) **May 2000** IX Convegno del Gruppo Nazionale di Fisica Cosmica Lecce
(oral presentation)

8) **September 1999** LXXXV Congresso Nazionale della Società Italiana di Fisica Pavia
(oral presentation)

7) **September 1999** Symposium *X-ray Astronomy '999*
Bologna
(poster presentation)

6) **May 1999** Congresso Nazionale *Oggetti Compatti (CNO)*
Como
(oral presentation)

5) **November 1998** Symposium *Gamma-Ray Bursts in the Afterglow Era* Roma
(poster presentation and member of the Local Organizing Committee)

4) **September - October 1998** LXXXIV Congresso Nazionale della Società Italiana di Fisica Salerno
(oral presentation)

3) **October 1997** Symposium *The Active X-Ray Sky*, Accademia dei Lincei
Roma
(poster presentation)

2) **July - August 1997** 42simo SPIE's International Symposium on Optical Science, Engineering, and Instrumentation
San Diego, California, USA
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Il sottoscritto LORENZO AMATI, codice fiscale MTALNZ66S08F257W, nato a Modena il 8/11/1966 e residente a Modena (MO) in via Guttuso n. 21/1, CAP 41125, consapevole della responsabilità penale prevista dall'art. 76 del D.P.R. n. 445/2000 per le ipotesi di falsità in atti e dichiarazioni mendaci ivi indicate, dichiara che il contenuto del presente curriculum vitae corrisponde al vero e che le dichiarazioni rese in esso hanno valore di autocertificazione e notorietà ai sensi degli artt. 46 e 47 del D.P.R. n. 445/2000.

Bologna, 29 Settembre 2023

In fede,

Lorenzo Amati