



# Fermi

Gamma-ray Space Telescope

## FERMI STATUS AND REQUESTS TO INFN 2022

Gloria Spandre

INFN-Pisa

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on behalf of the *Fermi*-LAT  
collaboration

Pisa, 28 giugno, 2021

- ▶ Solar flares (Pesce-Rollins)
  - ▶ The First Fermi-LAT Solar Flare Catalog published on ApJS
  - ▶ Phenomenological model of delayed emission from solar flares
  - ▶ Implementation of likelihood analysis of impulsive solar flares with the Multi-Mission Maximum Likelihood Framework package (threeML)
- ▶ Gamma-ray pulsars (Razzano)
  - ▶ Multiwavelength studies of gamma-ray pulsars
    - ▶ Study of X-ray (XMM) and gamma-ray (LAT) emission from young pulsars (J2021,J1826,J1809)
    - ▶ Search for radio counterparts of pulsars
  - ▶ Variability phenomena in pulsars
    - ▶ Multiwavelength study of flux variations in PSR J2021+4026
    - ▶ Systematic study of glitches in gamma-ray pulsars
  - ▶ Multimessenger connections
    - ▶ How gamma rays can help the detection of GW emission from pulsars
- ▶ Machine learning to study gamma-ray sources (Razzano)
  - ▶ Machine learning support to pulsars blind searches
  - ▶ Study of unidentified sources

- ▶ Ninth International Fermi Symposium from April 12-17, 2021:  
<https://indico.cern.ch/event/1010947/>
- ▶ SolFER Spring Meeting from May 24-26, 2021:  
<https://agenda.infn.it/e/SolFERSpring2021>
- ▶ Second Edition Gravi-Gamma workshop from June 23-26, 2021: <https://agenda.infn.it/e/gravigamma2>
- ▶ RHESSI-20 workshop from July 6-9, 2021:  
<https://agenda.infn.it/e/RHESSI-20>

Pesce-Rollins:

- ▶ Deputy analysis coordinator
- ▶ Publication board
- ▶ Mentoring program advising committee

Kuss:

- ▶ LAT Level1 data processing
- ▶ LAT tracker alignment
- ▶ Manager of Fermi's virtual organization [glst.org](http://glst.org) on the grid

*Fermi*

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- ▶ Attuale Responsabile Locale: Gloria Spandre
- ▶ Prossimo (2022) Responsabile Locale: Melissa Pesce-Rollins

Nome	Affiliazione	%
Baldini L.	Università di Pisa	40
Bellazzini R.	Associato INFN	0
Brez A.	INFN	50
Califano F.	Università di Pisa	20
Fiore A.	INFN	100
Kuss M.	INFN	70
Massai M.M.	Associato INFN	0
Pesce Rollins M.	INFN	50
Razzano M.	Università di Pisa	50
Sgrò C.	INFN	50
Spandre G.	INFN	50
Totale FTE		4,8

Nell'ipotesi che nel 2022 si possa circolare liberamente almeno in EU, chiediamo 17 keuro (+ 5 k SJ) così suddivisi:

- ▶ Partecipazione Meeting analisi Italia - 3.0 keuro
- ▶ Partecipazione Conferenze in Italia e EU - 8.0 keuro
- ▶ 2 mesi cofinanziamento Rise-NEWS - 6.0 keuro
- ▶ SJ: Collaboration Meeting extra EU - 5.0 keuro

Non ci sono richieste particolari alla Sezione se non il supporto ordinario al gruppo.

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