

Dear colleague,

The Symposium from the International Astronomical Union **IAUS 331:**
"SN 1987A, 30 years later – Cosmic Rays and Nuclei from Supernovae and their aftermaths"

Where ? *Saint-Gilles-Les-Bains, La Reunion Island (Indian Ocean), France*

When ? *February 20-24, 2017*

aims at making the link between the stellar progenitors and the multi-wavelength/multi-messenger manifestation of core-collapse (cc-)Supernovae (SNe) and their remnants (SNRs) in terms of extreme sources of high-energy particles and nuclei, at the occasion of the 30th anniversary of the unique event SN 1987A. Through an interdisciplinary approach, the Symposium will span a broad spectrum of interconnected, topics within this rapidly evolving research field of cc-SNe and SNRs.

We invite contributions on the following topics:

- Latest evolutionary stages of massive stars as cc-SN progenitors
- cc-SNe as stellar explosive outcomes
- cc-SN explosion mechanisms
- cc-SN remnants and impacts
- Particle acceleration & Origin of cosmic rays
- SN 1987A, 30 years later
- Non-thermal multi-wavelength/multi-messenger data on SNe and SNRs

Confirmed invited speakers are:

- Poonam Chandra (*NCRA-TIFR, India*)
- You-Hua Chu (*ASIAA, Taiwan*)
- Anne Decourchelle (*CEA/SAP, France*)
- Fiorenza Donato (*Univ. Torino, Italy*)
- Claes Fransson (*OKC, Sweden*)
- Christopher L. Fryer (*LANL, USA*)
- Brian Grefenstette (*SRL, Caltech, USA*)
- Alexander Heger (*MoCA, Monash Univ., Australia*)
- Raphaël Hirschi (*Keele Univ., UK*)
- Robert P. Kirshner (*CfA Harvard, USA*)
- Kei Kotake (*Fukuoka Univ., Japan*)
- Shiu-Hang Lee (*ISAS/JAXA, Japan*)
- Julie McEnery (*NASA/GSFC, USA*)
- Giovanni Morlino (*INFN/Gran Sasso Science Institute, Italy*)
- Salvatore Orlando (*INAF/OAPa, Italy*)
- Georg Raffelt (*MPP, Germany*)
- Irene Tamborra (*NBIA, Denmark*)
- Stefano Valenti (*UC Davis, USA*)
- Giovanna Zanolari (*ICRAR, Australia*)

Request for IAU Financial Support is open until **October, 20th 2016**. IAU grants are meant to support qualified scientists to whom only limited means of support are available, e.g., colleagues from economically less privileged countries and young scientists. Deadline for Early registration (250 EUR) and abstract submission is set to **November, 10th 2016**. Late registration (300 EUR) is possible until **December, 20th 2016**.

For more information, please visit the website at the following (new!) URL: <https://iaus331.lupm.in2p3.fr>

Interested in attending the meeting ? Just let us know by using the dedicated Contact form on the above website. If you have any question concerning the Symposium, please contact us at iaus331@lupm.univ-montp2.fr.

Looking forward to welcoming you in La Reunion Island!

The IAUS 331 SOC: Elena Amato, Aya Bamba, Andrei Bykov (co-Chair), Roger Chevalier, Roland Diehl, Gloria Dubner (co-Chair), Fiona Harrison, Hans-Thomas Janka, Marianne Lemoine-Goumard, Alexandre Marcowith (co-Chair), Georges Meynet, Alak Ray (co-Chair), Matthieu Renaud, Samar Safi-Harb, Stephen Smartt, and Patricia Whitelock