

NIC 2018 Satellite School - Caserta June 17th-22nd 2018

Program

June 18th - CRS SNA Caserta - Main Hall

8:30 Registration

8:45 Welcome and organizatory information

9:00 Nuclear Astrophysics in its 7th decade after B2FH - F. Strieder

11:15 Cofeeee break

11:30 Physical and chemical evolution of Stars (1) - A. Chieffi

12:45

lunch

14:15 Physical and chemical evolution of Stars (2) - A. Chieffi

15:45 Multimessenger strategies for the study of the macrocosm and microcosm (1) - M. Spurio

16:30 Coffee Break

16:45-17:45 Multimessenger strategies for the study of the macrocosm and microcosm (2) - M. Spurio

June 19th

9:00 Isotopic ratios: strong constraints from meteorites to stellar nucleosynthesis - S. Palmerini

11:15 Coffee break

11:30 Experimental Nuclear Astrophysics: direct methods (1)- L. Gialanella

12:45 lunch

lunch

14:15 Experimental Nuclear Astrophysics: direct methods (2)- L. Gialanella

15:15 Experimental Nuclear Astrophysics: indirect methods (1) - M. La Cognata

16:30 Coffee Break

16:45-17:30 Experimental Nuclear Astrophysics: indirect methods (2)- M. La Cognata

Wed.-Th.-Fr 20th to 22nd

Students will be split in 5 different stages:

1. 3MV tandem laboratory: nuclear reaction cross sections using a recoil mass separator. (location: CIRCE)

2. ICP-MS laboratory: measurements of isotopic ratios in meteorites. (location: CIRCE)

3. Stellar evolution and Nucleosynthesis: model calculations, nuclear cross sections and comparison to observations (CRS-SNA - Computer Room)

4. Indirect methods: Trojan Horse Method from the raw data to the cross section (Dept. Of Mathematics and Physics - Computing Centre)