

**Program: A conference in honor of Mike Rich - The Galactic bulge and beyond**

**Sunday, September 17**

**19:00 -20:00 Welcome party, Registration**

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**Monday, September 18**

09:00 - 09:30 Registration

09:30 - 09:45 Welcome (Matteucci)

**Session: Observing the Bulge - from Optical High-Resolution spectroscopy to Large Surveys**

09:45 - 10:15 Rich: The Bulge from Vulcano to Elba: 40 years of surveys and challenges

10:15 – 10:45 De Propris: X-stars in the Galactic Bulge

10:45 - 11:15 Coffee Break

11:15 - 11:45 Prudil: 7D mapping and timing of the Milky Way bar

11:45 - 12:15 Chiappini: Stellar populations in the Galactic bulge

12:15 - 12:45 Clarkson: Hubble Space Telescope Proper Motions towards the Bulge: a retrospective and look forward

**Lunch Break**

**Continue Observing the Bulge**

17:00 - 17:30 Saviane: My work with Mike

**Session: Nuclear stellar cluster and disc (Observations and Simulations)**

17:30 - 18 00 Ryde: Abundances in the Nuclear Star Cluster

18 00 - 18 30 Thorsbro: Detailed NLTE abundance analysis of 20 Nuclear Stellar Cluster/Disk stars

18 30 - 19 00 Nogueras Lara: The nuclear stellar disc of the Milky Way as a tracer of the Galactic bar



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**Tuesday, September 19**

**Continue: Nuclear stellar cluster and disc (Observations and Simulations)**

09:00 - 09:30 Sormani: The nuclear stellar disc: the hearth of the Galactic bulge

09:30 - 10:00 Schoenrich: What we learn from chemical evolution in the nuclear disc

**Session: Globular clusters and the peculiarity of Bulge GCs**

10:00 - 10:30 Ferraro: Fossil fragments as tracers of the Galactic Bulge formation process

10:30 - 11:00 Coffee Break

11:00 - 11:30 Ortolani: The metal rich globular clusters in the galactic bulge. A confirmation of early Mike

11:30 - 12:00 Renzini: Globular clusters and high-redshift Universe

12:00 – 12:30 Romano: The chemical enrichment history of the peculiar cluster Terzan 5

**Lunch Break**

**Continue: GCs**

17:00 - 17:30 Souza: Identifying the fundamental bricks of the Milky Way bulge

17:30 - 18:00 Kunder: MWBest: Characterizing tidal debris around inner Galaxy Globular Clusters

18:00 - 18:30 Pagnini: On the dearth of C-enhanced metal-poor stars in the Galactic bulge

**Session: Stellar evolution and nucleosynthesis**

18:30 - 19:00 Limongi: Evolution and final fate of stars in the transition between AGB and Massive Stars

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**Wednesday, September 20**

**Continue: Stellar evolution and nucleosynthesis**

09:00 - 09:30 Nguyen: Stellar Evolution with Rotation in PARSEC v2.0

09:30 - 10:00 Della Valle: The role of Nova explosions in galactic nucleosynthesis



10:00 - 10:30 Coffee Break

10:30 - 11:00 Rizzuti: Nucleosynthesis and stellar evolution in 3D stellar models

**Session: The Bulge and its Bar**

11:00 - 11:30 Minchev: Bar parameter fluctuations lead to overestimated lengths and “ultrafast” bars

**Session: Interplay between the Bulge and the Galaxy**

11:30 - 12:00 Danziger: SN1987A with JWST

12:00 – 12:30 Valentini: A glimpse in the inner Galaxy using asteroseismology

**Lunch Break**

17:00 - 17:30 De Laverny: The Gaia/RVS chemical cartography of the Milky Way

17:30 - 18:00 Cerqui: The age - metallicity relation as Galactic archaeology tracer

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18:00 - 18:30 McWilliam: TBD

18:30 - 19:00 Origlia: My short story of BigMike

**20:00 Social Dinner**

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**Thursday, September 21**

**Continue: Interplay between the Bulge and the Galaxy**

09:00 - 09:30 Tsujimoto: Chemistry, the IMF, and migration of the Galactic bulge

09:30 -10:00 Piotto: Stellar parameters of planet hosting stars from PLATO mission

**Session: Chemo-dynamical model for the Galaxy**

10:00 -10:30 Maraston: Stellar population models based on 60,000 Milky Way empirical spectra

10:30 - 11:00 Coffee Break

11:00 - 11:30 Kobayashi: Elemental abundances in the Galactic bulge, M31 disks, and in the early Universe



11:30 - 12:00 Calura: On the origin of the double  $[\alpha/\text{Fe}]$  sequence in the Milky Way Disk

**Session: Chemical evolution model for the Galaxy and its Bulge**

12:00 - 12:30 Matteucci: The history of the Bulge chemical evolution

**Lunch Break**

17:00 - 17:30 Cescutti: Galactic Archaeology with neutron-capture elements in the Bulge

17:30 - 18:00 Grisoni: Galactic archaeology with the lens of asteroseismology

18:00 - 18:30 Molero: Origin of neutron capture elements with the Gaia-ESO survey: the evolution of s- and r-process elements across the Milky Way

**Session: Bulges in /and external galaxies**

18:30 - 19:00 Collins: The unusually low density dwarf galaxies of Andromeda – a challenge for cold dark matter?

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**Friday, September 22**

**Continue: Chemical evolution model for the Galaxy and its Bulge**

09:00 - 09:30 Spitoni: Chemical evolution models with Gaia Dr3

**Session: Bulges in /and external galaxies**

09:30 - 10:00 Bunker: JWST at the edge of the Universe - finding galaxies in the epoch of reionization with NIRSpc

10:00 - 10:30 Giavalisco: Following the structural evolution of massive galaxies in time

10:30 – 11:00 Vasini: Galactic Archaeology with the  $[\text{Mg}/\text{Mn}]$  vs.  $[\text{Al}/\text{Fe}]$  diagram: uncertainties and caveats

11:00 – 11:30 FINAL REMARKS

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