Session Program

Dec 11 – 15, 2023

The 32nd Texas Symposium on Relativistic Astrophysics

Neutron Stars

Tsung-Dao Lee Institute

Mon, December 11

1:40 PM

Neutron Stars: 13:30, Monday

Session | **Location:** Hall # 8 | **Convener:** JinLin Han

1:40 – 2:05 PM **The short, high-DM FRB sky as revealed by Apertif + LOFAR**

Speaker
Joeri van Leeuwen

2:05 – 2:30 PM **Future Science with a Growing CHIME/FRB Sample**

Speaker
Ryan Mckinven

2:30 – 2:55 PM **FRB physics: what, where and how?**

Speaker
Prof. Bing Zhang

2:55 – 3:07 PM

Investigating the Connection between Persistent Radio Sources and Fast Radio Bursts

Speaker
Yuxin Dong

3:07 – 3:19 PM **The MeerKAT Pulsar Timing Array**

Speaker
Matthew Bailes

3:20 PM

Tue, December 12

3:50 PM

Neutron Stars: 16:10, Tuesday

Session | **Location:** Hall # 8 | **Convener:** Bing Zhang

3:50 – 4:10 PM **Mysteries of fast radio bursts**

Speaker
Dongzi Li

4:10 – 4:30 PM **"Geometry" of Pulsars, Magnetar and Fast Radio Burst**

Speaker
Prof. Weiwei Zhu

4:30 – 4:50 PM
Statistical properties of repeating FRBs, in comparison with earthquakes and solar flares

Speaker
Tomonori Totani

4:50 – 5:15 PM **Coherent probes of the universe with FRBs and Gravitational Waves**

Speaker
Ue-Li Pen

5:15 – 5:30 PM **Poster introduction: one minute each**

5:30 PM

Thu, December 14

1:40 PM

Neutron Stars: Thursday

Session | **Location:** Hall # 8 | **Convener:** Yuri Levin

1:40 – 2:05 PM **Pulsar Discoveries by FAST**

Speaker
JinLin Han

2:05 – 2:30 PM **Pulsar magnetospheres and their radiation**

Speaker
Prof. Alexander Philippov

2:30 – 2:55 PM **Fast radio bursts from magnetars**

Speaker
Andrei Beloborodov

2:55 – 3:07 PM **Alfven wave dynamics in the magnetar magnetosphere**

Speaker
Xinyu Li

3:07 – 3:19 PM
Understanding various optical transient phenomena with the magentar engine model

Speaker
Prof. Yun-Wei Yu

3:20 PM

Fri, December 15

8:40 AM

Neutron Stars: Friday

Session | **Location:** Hall # 8 | **Convener:** Shuai Zha

8:40 – 9:05 AM **Superfluid dynamics in neutron star crusts**

Speaker
Yuri Levin

9:05 – 9:25 AM **Quark degrees of freedom in neutron stars**

Speaker
Gordon Baym

9:25 – 9:50 AM **Neutron Stars as Laboratories for Nuclear and Particle Physics.**

Speaker
Sanjay Reddy

9:50 – 10:02 AM **Spindown of Pulsars Interacting with Companion Winds**

Speaker
Yici Zhong

10:02 – 10:14 AM

Probing hadron-quark phase transition in inspiralling neutron stars

Speaker
Zhiqiang Miao

10:20 AM