

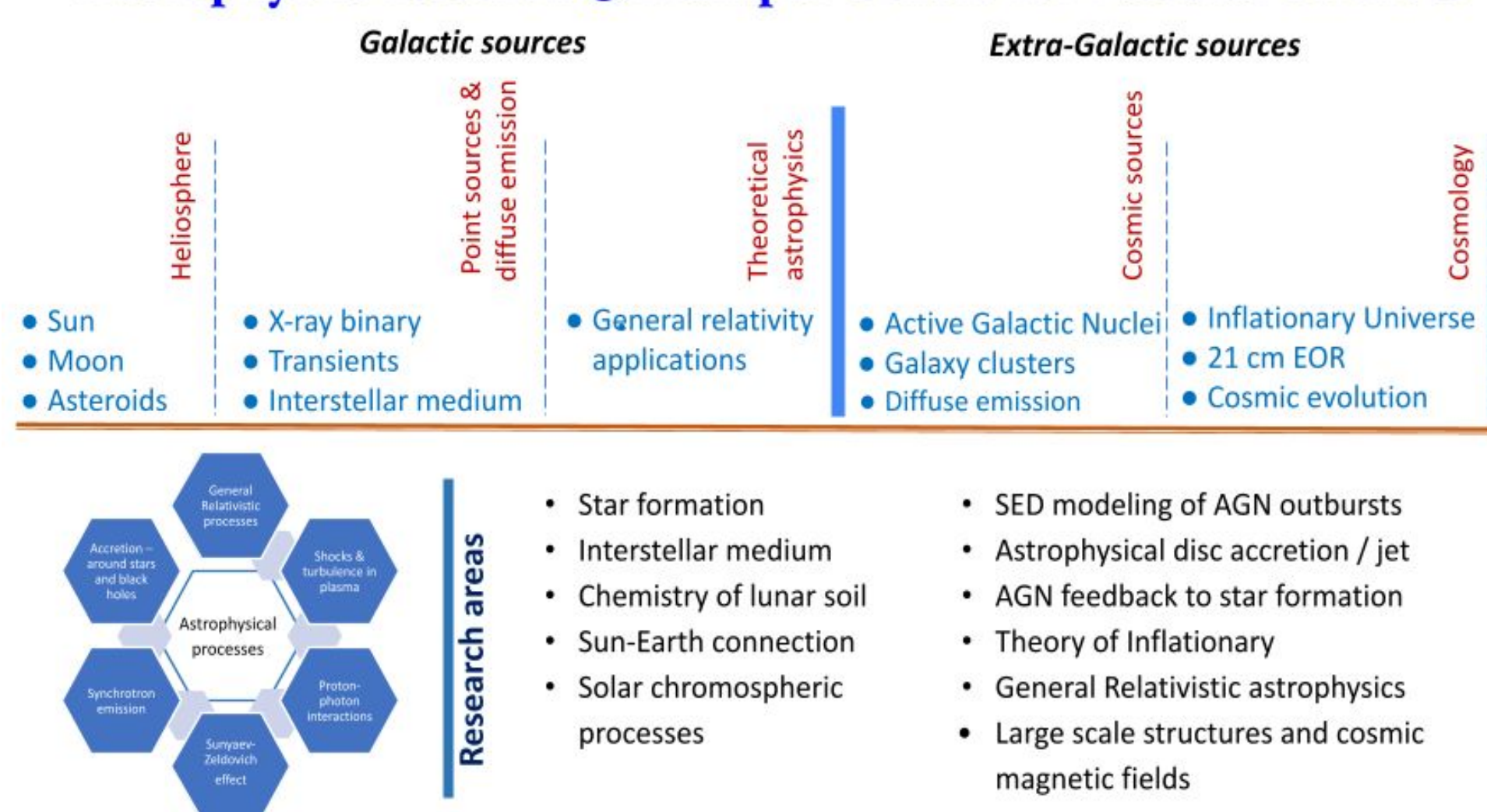


Manipal Centre for Natural Sciences

Manipal Centre for Natural Sciences (MCNS) is a “Centre of Excellence” at Manipal Academy of Higher Education dedicated to the pursuit of fundamental research. MCNS offers a regular PhD program for those who completed a Master's degree, and an integrated Ph.D. program for those who completed a Bachelor's degree (BSc/BE/BTech). The objective of both programs is to nurture researchers who will work in the forefront areas of natural sciences. The procedure for applying to the **regular Ph.D. program** is explained below.

Astrophysics Research in MCNS

Astrophysics research @ Manipal Centre for Natural Sciences



Ph.D. Projects Offered in 2026-27

Offered research areas and topics in the current call

ASTROPHYSICS

Sun and heliosphere:

1. A Century of Sunspot Tilts: Testing Solar Dynamo Models
– Dr Sudip Mandal ; **ORCID:** <https://orcid.org/0000-0002-7762-5629>

Compact objects:

1. Hidden Black Holes in Stars: Spin Evolution and Internal Dynamics
– Dr Chandrachur Chakraborty; **ORCID:** <https://orcid.org/0000-0003-4380-3033>
2. Probing signatures of accretion around compact objects using multi-wavelength observations
– Dr Syeda Nazma Islam; **ORCID:** <https://orcid.org/0000-0002-2413-9301>
3. Blazar Jets in the Multi-Messenger Era: Probing the Origin of High-Energy Emission and Hadronic Signatures in Broadband Spectra
– Dr Zahir Ahmad Shah <https://orcid.org/0000-0003-1458-4396>

PARTICLE PHYSICS:

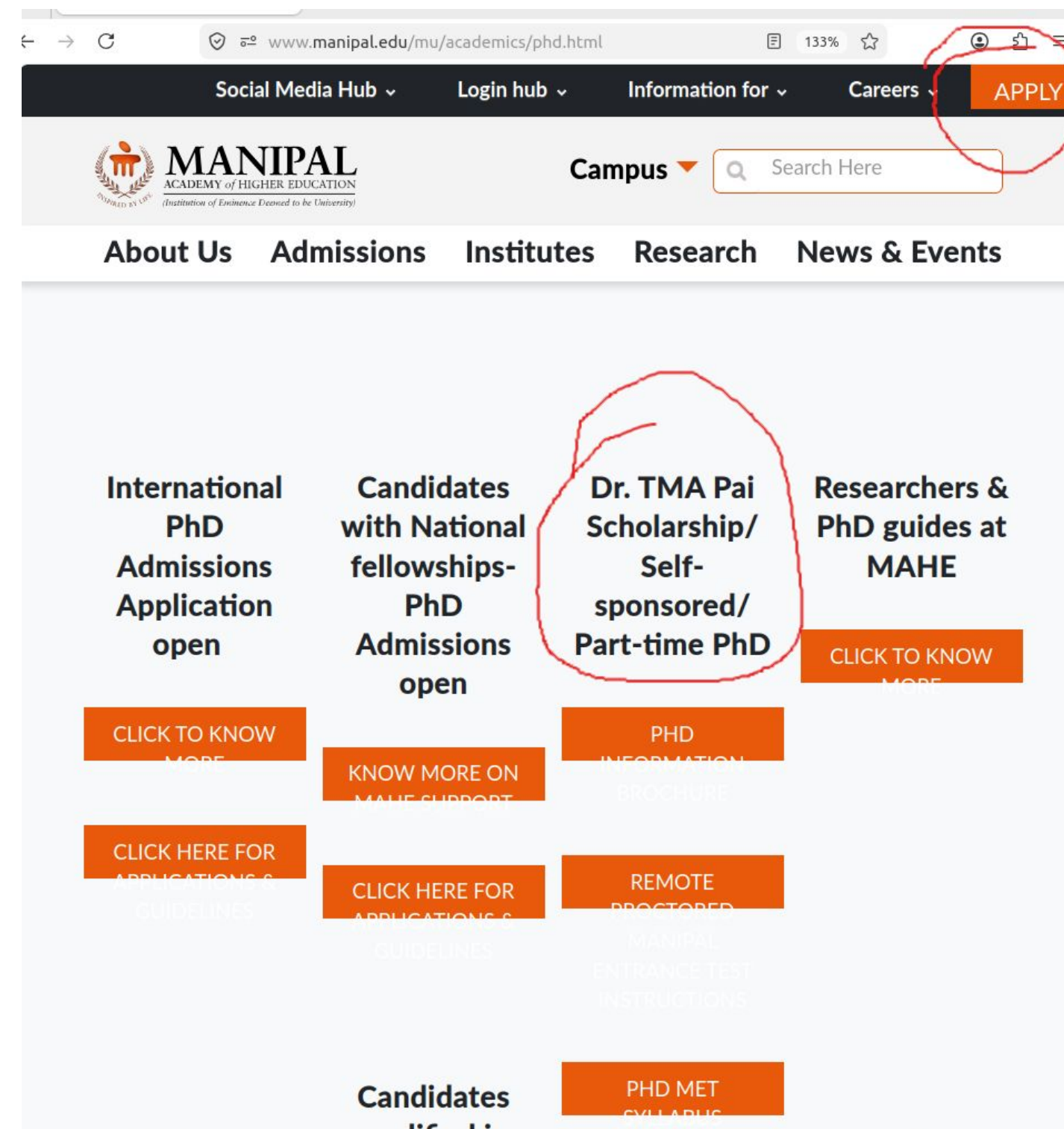
1. Quantum Entanglement as a Probe of Fundamental Interactions at High-Energy Colliders
– Dr Sumit Kumar; **ORCID:** <https://orcid.org/0000-0001-6151-1961>

Online Application

Step 1: Go to the **MAHE Ph.D. portal**

<https://www.manipal.edu/mu/academics/phd.html>

Step 2: Click on the “**APPLY**” button



All candidates (except GATE/UGC-NET qualified) are required to qualify the PhD Manipal Entrance Test (MET) in Basic Sciences (Physics/Chemistry).

Filling the Registration Form

- Program Level Applying For – **Doctoral Studies**
- Select Stream – **Technology and Science**
- Select Campus Location – **Manipal**

After this step, follow the further instructions to fill up the form and pay the fees
You will receive an acknowledgement with application no. for future reference

For further details, please refer to the brochure at:

https://www.manipal.edu/content/dam/manipal/mu/documents/Admissions/adm2026/2026_27_PhD%20Batch_2_Information%20Brochure.pdf

For further queries, please contact the MCNS office:

Phone: **0820 292 3571**

Email: office.mcns@manipal.edu

Faculty Webpage :

<https://www.manipal.edu/mcns-manipal/department-faculty.html>

