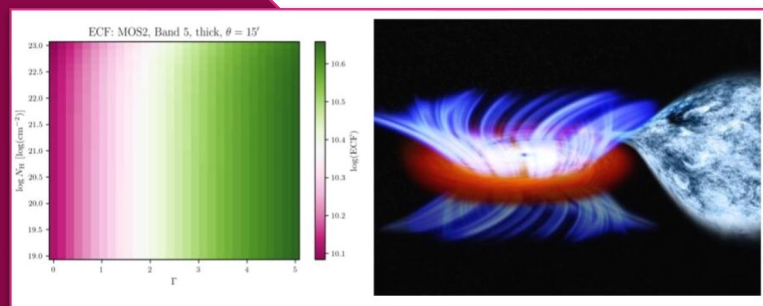




**Sudip Chakraborty**

**Organization:** Commissariat à l'énergie atomique et aux énergies alternatives (CEA)

**Position:** Post-doc



I am a post-doctoral researcher at AIM, CEA Saclay (France) specializing in broadband X-ray spectroscopy of Active Galactic Nuclei and Galactic Black Hole X-ray Binaries. My primary scientific interest lies in finding connections between the accretion and ejection mechanisms among accreting Black Holes across a wide range of masses and accretion rates. I perform detailed physical modelling of high-resolution data from NuSTAR, NICER, XMM-Newton and other facilities to gain deeper understanding of the Comptonization and reflection processes, as well as fast winds.

As a part of XMM2ATHENA WP4, I am involved with generating energy correction factors, a key building block for the new source detection algorithm. This new source detection algorithm aims to discover fainter hitherto undetected sources, while also giving us information about their spectral parameters. I am also involved with the testing of the resulting Enhanced Stacked Catalogue.