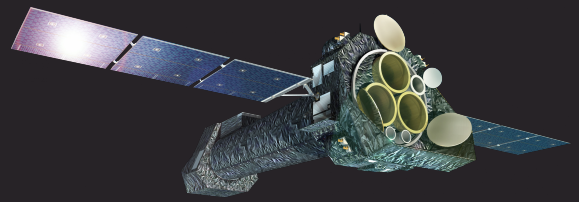
Dr. Poemwai Chainakun

Suranaree University of Technology, Thailand

pchainakun@g.sut.ac.th

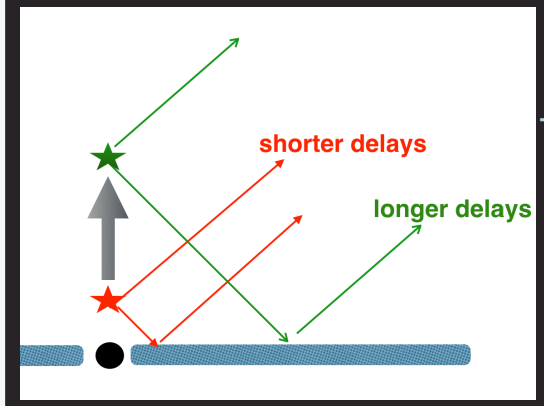


In collaboration with:

Tanakorn Sritarapipat (SUT, Thailand) Andrew Young, Steff Hancock (U of Bristol, UK), Apimook Watcharangkool (NARIT, Thailand), Erin Kara (U of Maryland, USA)

Research interest: Accreting black holes, AGN corona, jets and outflows (using XMM-Newton data)

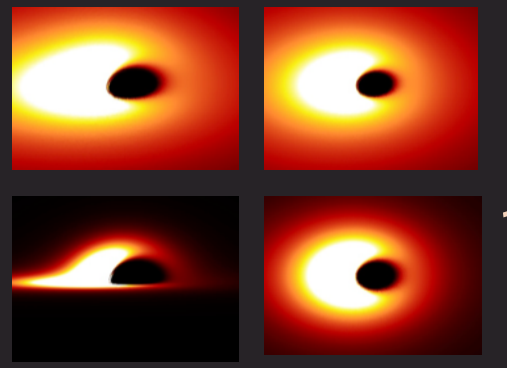
Modelling X-ray spectrum and time lags



Information we can get:

- Distance, geometry and Dynamic overview of the X-ray source (e.g., corona, jet)

Event horizon detection using Machine learning



Train machine using simulations!

Can the machine still accurately identify the shape of the event horizon in various environmental conditions (e.g., image with noises, thin and thick accretion disc, event horizon obscured by foggy corona)?