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Many facets of neutron stars: Astrosat and beyond

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We will discuss several interesting aspects of neutron stars that we have pursued over the years along with some very recent results. These include accretion torque, orbital evolution of binary X-ray stars and orbital glitches, quasi-periodic oscillations, self absorption in X-ray pulsars, cyclotron lines in X-ray pulsars, thermonuclear X-ray bursts and their reprocessing etc. We will also discuss some of the important aspects of neutron stars that will be probed in greater detail with ASTROSAT and an X-ray polarimeter and potential use of X-ray pulsars for deep space navigation.

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