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NuSTAR and XMM-Newton Observation of SAX J1808.4-3658 during the latest outburst

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We will present spectral and timing analysis of NuSTAR and XMM-Newton data of the Accreting Millisecond Pulsar SAX J1808.4-3658 during its latest outburst in April 2015.

We will discuss a high-quality broad band (2-80 keV) spectrum where the reflection component is clearly present, in line with previous results.

Using DDT XMM-Newton data, we derived updated values for the spin and the orbital period of the source.

We will discuss the secular evolution of these parameters in the framework of conservative versus non-conservative evolutionary scenarios.

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