

## Seminar

by

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**Montag, 5. November 2018, at 15:00 Uhr in HS**

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### ***“The Io Plasma Torus – Old stuff and new insights”***

The Io plasma torus, created by the volcanism on the innermost Galilean moon Io, was discovered by Voyager in the extreme ultraviolet. The gas escaping from Io, mainly SO<sub>2</sub> and its components, create a torus-shaped cloud along the orbit of the moon, which is partially ionized, and creates the plasma torus located at the centrifugal equator. This plasma torus radiates most of its energy in the ultraviolet, and is prone to various periodicities. In this presentation I will show some of the old knowledge about the torus as an introduction, and then show how observations from Voyager 1 in 1979 shows new insight into the location of the torus, also observations by e.g. Cassini and Hisaki show that the torus might behave differently from the Voyager era.