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Physikalische Institute Köln

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Planetary Mass Spectrometry 389Team – Compact QIT-Mass Spectrometers for Lunar and Planetary Applications

The Mass Spectrometer 389Team consists of experts in modeling, developing, and deploying technologies. Their goal is to send Compact QIT-Mass Spectrometers to Lunar, Comets, and Planetary missions. Over the past 20 years, the team has miniaturized and used QIT based mass spectrometer successfully for the International Space Station. Their accomplishments include Micro-Electro-Mechanical-Systems (MEMS) devices to reduce the weight and volume of Spacecraft Atmospheric Monitor (S.A.M.). The team has also been developing front ends to expand applications in dense atmospheres (ex: Venus) or liquids (ex: ocean worlds). Most of these developments can be used to determine any contaminants in air, water, or volatile in solids.

