

# ASI 2024

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- P 1.2 Isotope Analysis of Nitrogenous Model Substances – Investigation of Wet Persulfate Oxidation in the Interface of the LC-IRMS
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- P 1.4 Position-Specific Isotope Analysis of Serine Using ESI-Orbitrap

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- P 3.2 Isotopic investigation of plant part-specific nitrous oxide production in roots and shoots of chicory (*C. intybus*)
- P 3.3 DFG Research Unit Land-Atmosphere Feedback Observatory (LAFI): Using real-time isotopic in-situ measurements to partition evapotranspiration into soil evaporation and plant transpiration at two distinct cropland sites

### 4. Physiology, Metabolism, Forensics, Food

- P 4.1 Exploring Reaction Paths for Sulfonamide Hydrolysis: Insight from Experiments and Computations

## **5. Paleoclimate, Sedimentology, Soils**

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P 5.2 A multi-isotope geochemical perspective on lacustrine carbon diagenesis in dolomite- and calcite-bearing sediments of Lake Constance

## **6. Climate and Atmosphere**

P 6.1 Combining different methodological approaches for estimating  $\text{N}_2\text{O}$  processes and  $\text{N}_2\text{O}$  reduction in the field

P 6.2 Real-time analysis of  $\delta^{13}\text{C}$ - and  $\delta\text{D-CH}_4$  in ambient air with a QCL based absorption spectrometer coupled to a trace gas extractor (TREX-III)

## **7. Further topics**

P 7.1 On-line analysis of isotopic composition in  $\text{N}_2\text{O}$  emitted during biological nitrogen removal in wastewater treatment

P 7.2 Bioconversion of  $\text{CO}_2$  to  $\text{CH}_4$  during anaerobic digestion of Alfalfa indicated by  $^{13}\text{CO}_2$ -Labeling