



## Einladung zum Vortrag

### “Advances in AMS technology to study emission sources and environmental transport of anthropogenic radionuclides”

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**Termin:** Freitag, 11.03.2022, 10:30 Uhr, Lehrprobe 11:00 Uhr

**Online:**

[https://univienne.zoom.us/j/67339599683?pwd=RVpyY2J6VXdoQWk0N3VBa3BZRm\\_xMQT09](https://univienne.zoom.us/j/67339599683?pwd=RVpyY2J6VXdoQWk0N3VBa3BZRm_xMQT09)

**Meeting ID: 673 3959 9683**

**Kenncode: 341713**

**Abstract:**

Man-made long-lived radionuclides released into the environment are well-suited tracers for environmental mass transport, e.g. in ocean currents. Interpretation of radionuclide data, however, is often limited by environmental mixing or sedimentation, which can be disentangled by combining several radionuclide tracers. Recently, the VERA group has significantly increased the number of radionuclides detectable by Accelerator Mass Spectrometry (AMS) at the typically low environmental levels by successfully applying laser-photodetachment. After an introduction to the relevant source terms and their radionuclide signatures, I will focus on my envisaged analytical development steps required for the first-time implementation of a multi-isotope approach for environmental tracer studies.

Im Rahmen des Vortrages findet eine Lehrprobe zum Thema  
„Accelerators for Nuclear Physics“ statt.