EBERHARD KARLS
UNIVERSITÄT
TÜBINGEN

“Isotope Course 2025”

All times are s.t. (sharp)

Mon 24.02.		Tue 25.02.		Wed 26.02.		Thu 27.02.		Fri 28.02.	
9:15	Welcome (MD, CB, SV, IE, CBT) Stable Isotopes: Introduction, fractionation (MD)	9:15	Fractionation: use in ecosystem studies: from food webs to the water cycle (MD)	9:15	Interaction of radiation with matter: analysis of radioisotopes (CB) + calculations	9:15	Quantifying erosion by radioisotopes. Bomb ^{14}C; ^{14}C dating (CB)	9:15	Compound-specific stable isotope analysis (MD)
Coffee Break (10:30)									
11:00	Introduction to radioisotopes and their applications as tracers (CB)	11:00	Pulse and continuous labeling techniques and their application in plant-soil interaction (SV)	11:00	DNA/RNA SIP (IE)	11:00	Visualization of radioisotopes: Imaging techniques (CB)	11:00	Questions, chats, open discussion (MD, CCB)
Lunch (12:30)									
14:15	Stable Isotopes: Measurement techniques (MD)	14:00	Introduction to stable C isotopes (MD)	14:00	N isotopes (CBT)	14:00	Soil C dynamics+ CSIA (MD)		
Coffee Break (15:30)									
16:00	Key calculations for stable isotope studies (hybrid)			16:00	Lab tour stable isotopes + bulk isotope analysis (CB, OO)	16:00	Tour through the radionuclide labs of the GUZ (CB, DR)		