

Program for the CAS@Ferney - Basics of Accelerator Physics and Technology, 9-13 May 2022

| | Mon 09 | Tue 10 | Wed 11 | Thu 12 | Fri 13 |
|-------|--|--|---|---|---|
| 08:30 | Welcome | Coffee | | | |
| 08:45 | Accelerators for Beginners and the CERN Complex <i>Steerenberg</i> | Transverse Beam Dynamics I <i>Holzer</i> | Transverse Beam Dynamics III <i>Holzer</i> | Injection and Extraction <i>Dutheil</i> | Collective effects <i>Buffat</i> |
| 09:45 | Pause | | | | |
| 09:55 | Basic Mathematics and Units <i>Steerenberg</i> | Normal Conducting & Permanent Magnets <i>Zickler</i> | Longitudinal Beam Dynamics II <i>Tecker</i> | Cryogenics <i>Koettig</i> | Plasma Wakefield Acceleration + AWAKE <i>Gschwendtner</i> |
| 10:55 | Coffee | | | | |
| 11:25 | Electromagnetic Theory <i>Skowronski</i> | Longitudinal Beam Dynamics I <i>Tecker</i> | Beam Instrumentation <i>Lefevre</i> | Linear Imperfections <i>Wenninger</i> | HL-LHC <i>Zerlauth</i> |
| 12:25 | Lunch | | | | |
| 13:50 | Relativity for Accelerators <i>Shreyber</i> | Transverse Beam Dynamics II <i>Holzer</i> | RF Systems <i>Damerau</i> | Discussion | Future Linear Colliders <i>Stapnes</i> |
| 14:50 | Pause | | | | |
| 15:00 | Particle Sources <i>Küchler</i> | Discussion | Discussion | Controls <i>Deghaye</i> | Future Circular Colliders <i>Buffat</i> |
| 16:00 | Coffee | | | | |
| 16:30 | Standard Model and Beyond <i>Sphicas</i> | Linacs <i>Lombardi</i> | Superconducting Magnets <i>Todesco</i> | Vacuum Systems <i>Baglin</i> | Discussion |
| 17:30 | Welcome drink | | | | |