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## Imaging for particle therapy treatment planning

*Tuesday, 14 December 2021 08:30 (1 hour)*

Imaging for particle therapy treatment planning

The lecture will focus on tomographic imaging for particle therapy treatment planning, with special emphasis on the prediction of the stopping power ratio  $S(PR)$  as prerequisite for accurate range calculation. This knowledge is valid for both: Treatment planning before therapy start and for plan adaptations. Special emphasis will be on the application of Dual-Energy CT for direct SPR prediction. Furthermore, the pros and cons of MRI will be covered.

**Presenter:** RICHTER, Christian (OncoRay - National Center for Radiation Research in Oncology)