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## Radiation measurements and dosimetry:

*Thursday 18 July 2024 09:30 (1h 30m)*

- Brief historical introduction
- Directly and indirectly ionizing radiation, radioactivity, natural exposures
- The effects of ionizing radiation, deterministic and stochastic effects
- Radiological quantities and units, physical, protection and operational quantities
- Principles of radiation protection, justification, optimization and dose limitation, the ALARA principle
- Protection means, distance, time, shielding
- External and internal exposures, contamination
- Instrumentation for measuring photon and neutron radiation, individual monitoring, area monitoring, environmental monitoring

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**Session Classification:** Medical physics