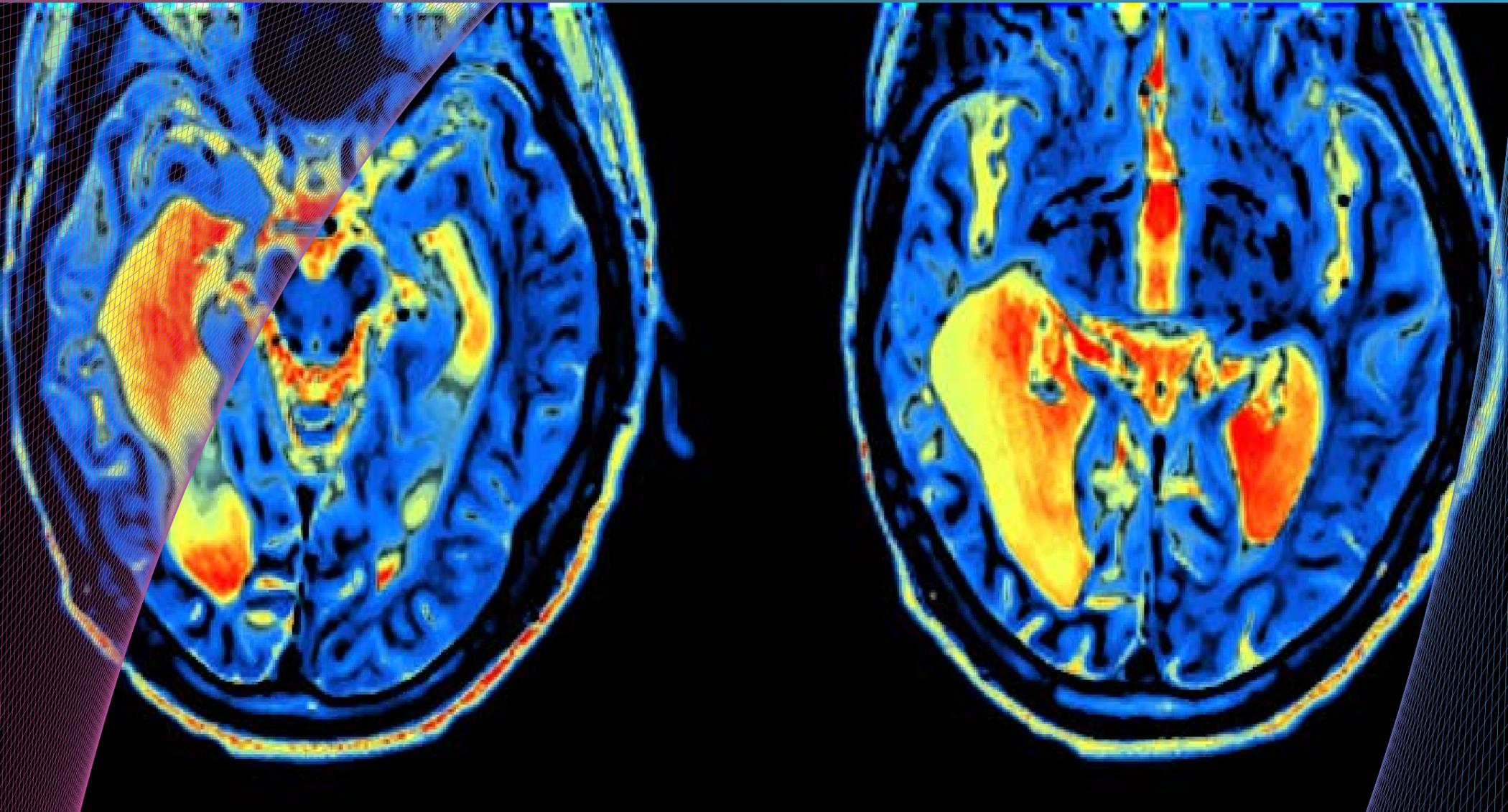


# PHYSICS COLLOQUIA 2021/2022



July  
10  
2022

**Carlo Cavedon** | Azienda Ospedaliera Universitaria Integrata di Verona (ITA)  
**FRONTIERS OF MEDICAL PHYSICS IN DIAGNOSTIC AND THERAPEUTIC SCENARIOS**

ore 14:30 | AULA A | DIPARTIMENTO DI FISICA

Medical physicists have a unique expertise to be scientific agents of innovation in the development and practice of medicine. Traditional areas where physics is closely related to the practice of medicine are radiology, nuclear medicine and radiation oncology.

New physics contributions including robust pathways for translation of science to practice are emerging in recent years, spanning fields previously unexplored.

An overview will be provided to cover applications of artificial intelligence to healthcare - with a special focus on the optimization of complex treatment strategies and the early assessment of treatment response - and new trends in radiobiologically-based unconventional schemes of radiation therapy.



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