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Perspectives on compact and next-generation particle therapy systems

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Modern particle therapy systems incorporate incredibly advanced (and large!) technologies: from pencil beam scanning (PBS) to gantries, advanced imaging to superconducting magnets, all in the name of high quality – and cost effective – patient treatment. So what changes are needed for the next generation? In this talk I will give an overview of current and future trends in particle therapy accelerator technology, including highlighting some cases where opportunities exist for innovation. I will also introduce the TURBO ‘Technology for Ultra Rapid Beam Operation’ project at the University of Melbourne, as an illustration of how novel technologies can help overcome existing bottlenecks.

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