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HPC-QC integration for scalable space data processing

Thursday 20 November 2025 10:30 (30 minutes)

This presentation discusses how the convergence of high-performance computing (HPC) and quantum computing (QC) can enable new levels of scalability and efficiency in data-intensive computational workflows. By integrating classical and quantum resources within unified architectures, such hybrid approaches have the potential to significantly improve the processing and analysis of large and complex datasets. These capabilities may become particularly relevant in domains where massive data volumes, real-time processing, and advanced analytical precision are essential —including emerging areas of research and technology development related to space data.

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