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Recent advances and trends in pattern recognition and data analysis for RICH detectors

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As RICH detector technologies evolve and data volumes increase, innovative pattern recognition and data analysis methods have become essential to fully exploit the capabilities of RICH systems. This talk presents an overview of recent developments in this domain, highlighting both methodological advancements and practical implementations across current and next-generation experiments. We discuss progress in traditional likelihood-based reconstruction methods, the integration of machine learning techniques - including deep neural networks and graph-based algorithms - and their performance in challenging high-volume and high-occupancy environments.

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