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AI-RDs: A EuCAIF proposal to structure AI research in Particle Physics

Accelerating the development and application of state-of-the-art artificial intelligence (AI) solutions for high-energy physics calls for a structured effort. The European Coalition for AI in Fundamental Physics (EuCAIF) provides a framework for coordinating AI research in fundamental physics. We propose AI Research and Development Groups (AI-RDs) to enable a long-term, fundamental AI research program. AI-RDs will support the development and maintenance of leading AI tools for experimental and theoretical physics, facilitate knowledge transfer, and provide a structure for the systematic evaluation of AI methods. Additionally, they will create new training and career development opportunities for researchers working at the interface of AI and physics.

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