

## ISAPP 2024: Particle Candidates for Dark Matter



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# BSM Physics Opportunities with Far-Forward Experiments at a 100 TeV Proton Collider

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Hadron-hadron collisions at energy-frontier facilities, such as the Future Circular Collider (FCC-hh), aiming for center-of-mass energies of approximately 100 TeV, can prospectively yield a prolific flux of high-energy feebly interacting particles predominantly in the forward direction. This presents a nice opportunity for probing physics beyond the Standard Model (BSM). Far-forward experiments at FCC will give access to rare and displaced BSM signal events that would otherwise miss detection. In the talk, I will discuss examples of BSM scenarios that could be probed in various far-forward detectors at the FCC (FPF@FCC).

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**Session Classification:** Flash Talks by Students