NEW YORK CITY COLLEGE OF TECHNOLOGY
Physics Department
Center for Theoretical Physics

The Dark Quarter of Our Universe

Presented by:

Susanne Westhoff

Pittsburgh University

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Abstract

Dark matter exists - at least we have strong evidence for its existence from observing gravitational interactions. It might well be that dark matter interacts with visible matter through other forces, too. However, searches for dark matter scattering off atomic nuclei or dark matter annihilation into light and electrons have not led to a discovery, but rather to strong constraints on the form of such interactions. High-energy particle colliders, in particular the Large Hadron Collider in Switzerland, provide us with a new testing ground for dark matter through direct production. This talk portrays dark matter searches at colliders and their potential to light the dark quarter of our universe.