Physicist Cindy Regal, University of Colorado Boulder, is the 2020 recipient of the Cottrell Frontiers in Research Excellence and Discovery (FRED) Award from Research Corporation for Science Advancement.

Regal’s research has focused on experimental advances in quantum information and quantum optics. The $250,000 FRED Award will support her efforts to address challenges in nuclear spin detection and imaging, and to broaden approaches to precision mechanical sensing. Her pioneering work could create a new pathway for observing spins through force signatures and perhaps enable 3D imaging at the nanoscale.

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