

Special Condensed Matter Theory Center/JQI Seminar



Tuesday, July 10, 11:00-12:30pm 2205 Physics Building

Professor Jainendra K. Jain Penn State University

"Composite Fermions"

Abstract:

The first half of the talk will present a lightning introduction to composite fermions, defining what they are, enumerating their principal physical manifestations, and explaining how they lead to a secure understanding of the fractional quantum Hall effect. The remainder of the talk will focus on the possibility of pairing of composite fermions at two filling fractions, 5/2 and 3/8, and a theoretical attempt at resolving whether the paired state is a Pfaffian or an Anti-Pfaffian.

