

1027-05-36

**Anne Schilling\*** ([anne@math.ucdavis.edu](mailto:anne@math.ucdavis.edu)), Department of Mathematics, University of California, One Shields Ave, Davis, CA 95616. *Physical Combinatorics*. Preliminary report.

Physical combinatorics is a branch of combinatorics that deals with combinatorial problems arising from physics, most notably from statistical mechanics and conformal field theory. I will describe some combinatorial questions arising in this way that can be described via crystal bases and symmetric functions, partial answers, and remaining open problems. (Received February 01, 2007)