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Dichromatic Dances.

Dancers and choreographers employ symmetric patterns of bodies in space fluidly and in fleeting ways. Ballet, folk, and contemporary dances often arrange dancers in two categories: men and women, two colors of costumes, antagonistic groups, etc. In this talk we will look at how two-colored symmetry patterns are employed in a variety of dance forms, and how the dichromatic symmetry patterns may be seamlessly morphed from one symmetry type to another, in a manner similar to visual parquet deformations. These explorations may make for engaging activities for liberal arts math classes. (Received September 19, 2016)