

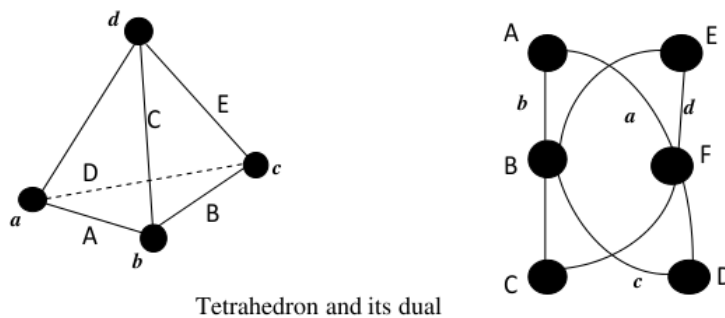
Math Club

presents

Tariq Nuruddin

Probability Weights on Platonic Solids

Abstract: The five platonic solids: Tetrahedron, Cube, Octahedron, Dodecahedron, and Icosahedron are finite dimensional symmetric mathematical models. The faces of the platonic solids are congruent regular polygons, and the vertex of each respective platonic solid is shared by the same number of edges. We will discuss probability weights which will be analyzed on test spaces determined by platonic solids. The probability weights provide a method for studying combinatorial properties and the logic of propositions associated with platonic solids. We will discuss two types of test spaces. In the first test space each vertex determines a test and each edge is an outcome of each test space. In the second test space each face determines a test and the outcomes are the vertices of the test. We will discuss the notion of Dacey Spaces and will only look at test spaces which satisfy the Dacey condition.



Monday, January 17, 4:00pm
Room D 117, Abbotsford

All students, faculty and staff are invited to attend.