ROGERS-RAMANUJAN IDENTITIES AND MOONSHINE

KEN ONO

Abstract: The Rogers-Ramanujan identities and Monstrous moonshine are among the deepest results which occur at the interface of number theory and representation theory. In these lectures the speaker will discuss these identities, and describe recent work with Duncan, Griffin on Warnaar on their recent generalizations. This will include a framework of Rogers-Ramanujan identities and singular moduli, and the theory of umbral Moonshine.