K-Theory, Quadratic Forms and Number Theory Seminar

Title: Ramanujan–like series and String Theory

Speaker: Dr. Jesús Guillera (Universidad de Zaragoza)

Date: Wed 23rd February 2011 at 3:00PM

Location: Mathematical Sciences Seminar Room

Abstract: Beginning in 2002 I have discovered formulas for $1/\pi^2$ which are similar to Ramanujan–type series for $1/\pi$ and I have proved some of them by the WZ–method. In this talk I will show how to find this kind of series by solving certain equations for some special rational values of a parameter. Curiously, our equations involve functions which are well known to Superstring physicists.