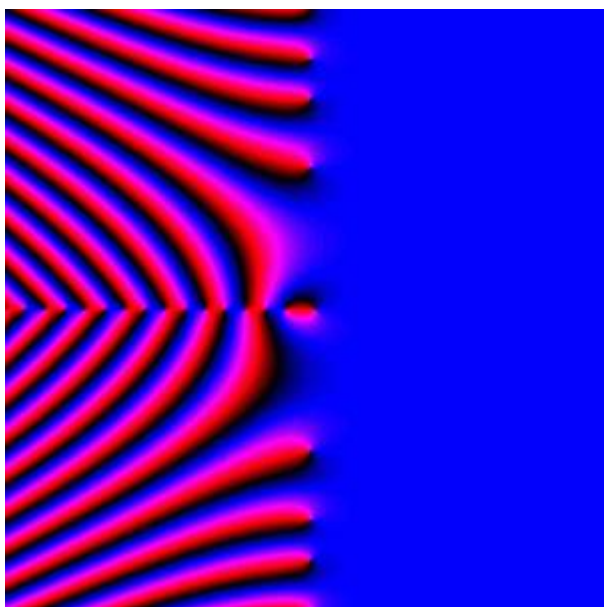


COLLOQUIUM SPEAKER SERIES

Mathematics & Computer Sciences

Monday November 16

12:00-12:50 in W565



Amir Akbary

University of Lethbridge.

Highly Composite Numbers

A number is called highly composite if it has more divisors than any smaller number. The first 10 highly composite numbers are 2, 4, 6, 12, 24, 36, 48, 60, 120, 180.

These numbers were introduced and studied by Ramanujan in 1915.

In this talk we describe some elementary properties of these numbers as given in Ramanujan's paper. We also discuss the relation of these numbers to some deep results and conjectures in the analytic theory of numbers.

I will try my best to make the talk accessible.

Everyone is welcome !