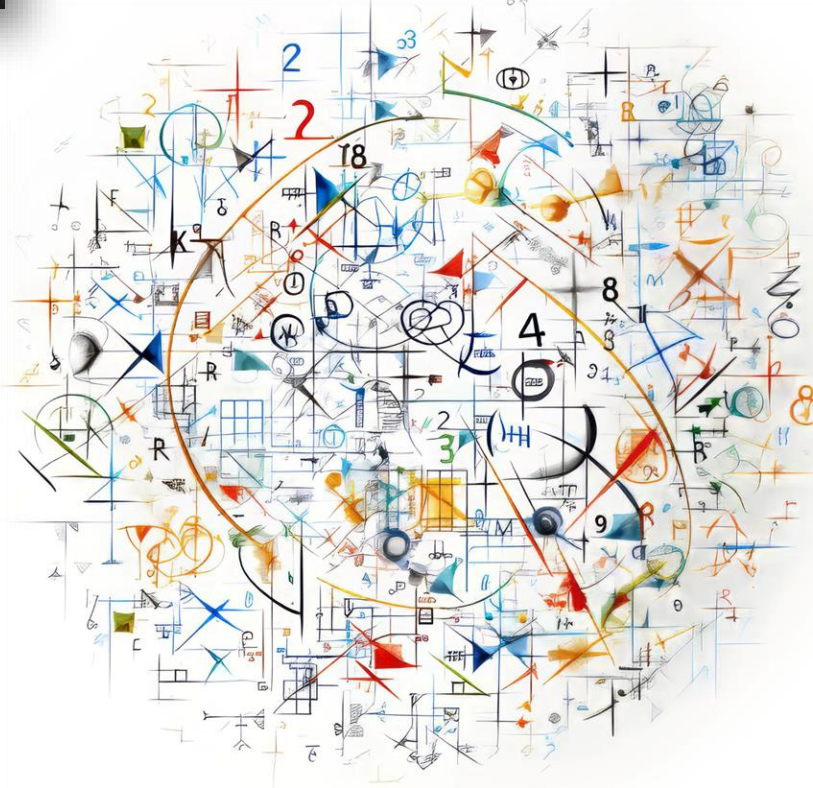




WEBINAR

# The Famous Partition Function and Partitions that are Arithmetic Sequences

Prof Rituparno Goswami (University of KwaZulu-Natal)



## ABSTRACT

In this talk I will briefly discuss the famous Partition function along with the contribution of Ramanujan and Hardy towards an approximate solution. I will also discuss a special case of this function where the partitions can be casted as an arithmetic sequence. Specifically I will introduce a function defined on the set of natural numbers, that gives the number of ways a natural number can be written as a sum of the terms of arithmetic sequences. I will discuss some interesting properties of this function and relate our results to the concept of highly composite numbers as introduced by Ramanujan in 1915.

*Dr Rituparno Goswami is a Professor at the School of Mathematics Statistics and Computer Science at the University of KwaZulu-Natal (Westville Campus).*

14 Mar 2024  
12h15-13h15 SAST

NITheCS Seminar Room  
3rd Floor, H-Block,  
School of Chemistry and Physics,  
Westville Campus  
University of KwaZulu-Natal

& Online

**Register:**  
<https://bit.ly/3V3zcCj>



**Enquiries:**  
Please email Neli Mncube:  
[neli.mncube@nithecs.ac.za](mailto:neli.mncube@nithecs.ac.za)