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'number theory in the spirit of ramanujan

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'srinivasa ramanujan

June 5th, 2020 - srinivasa ramanujan frs ? s r ? n ? v ?? s r ?? ? m ?? n ? d? ?n born srinivasa ramanujan aiyangar 22 december 1887 26 april 1920 was an indian mathematician who lived during the british rule in india though he had almost no formal training in pure mathematics he made substantial contributions to mathematical analysis number theory infinite series and continued'

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May 13th, 2020 - we present a method for constructing an infinite family of non bipartite ramanujan graphs we mainly employ p ary bent functions of p 1 form for this construction where p is a prime number our result leads to construction of infinite families of expander graphs this is due to the fact that ramanujan graphs play as base expanders for constructing further expanders'

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'**elementary number theory group theory and ramanujan**

May 5th, 2020 - only a knowledge of elementary algebra analysis and binatorics is required because the authors provide the necessary background from graph theory number theory group theory and representation theory thus the text can be used as a brief introduction to these subjects and their synthesis in modern mathematics'

'**peter sarnak**

May 18th, 2020 - peter sarnak was awarded the pólya prize of society of industrial amp applied mathematics in 1998 the ostrowski prize in 2001 the levi l conant prize in 2003 the frank nelson cole prize in number theory in 2005 and a lester r ford award in 2012 he is the recipient of the 2014 wolf prize in mathematics"*elementary number theory group theory and ramanujan*

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April 29th, 2020 - in graph theory the girth of a graph is the length of a shortest cycle contained in the graph if the graph does not contain any cycles i e it s an acyclic graph its girth is defined to be infinity for example a 4 cycle square has girth 4 a grid has girth 4 as well and a triangular mesh has girth 3'

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