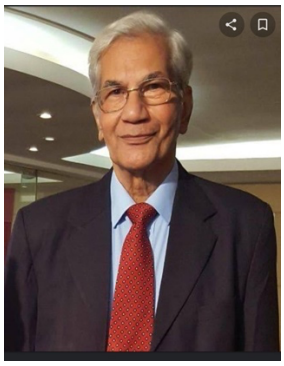
DEPARTMENT OF MATHEMATICS
PANJAB UNIVERSITY, CHANDIGARH
cordially invites you to a
Memorial Webinar in honour of Prof I. B. S. Passi

ON TUESDAY, OCT., 26, 2021



Professor Inder Bir Singh Passi (20.08.1939 – 2.10.2021)

Indian Standard Time	
9:30 - 9:35 AM	Chairperson's Address
9:35 - 10:25 AM	Speaker: A. W. Hales (University of California, U.S.A) Title : Inder Bir Passi: Group Rings and Memories.
10:30 - 11:10 AM	Sharing Memories by Ajit Iqbal Singh, Ravi Kulkarni, Sudhir Ghorpade, Sudesh Kaur Khanduja, S. D. Adhikari,…
11:10 am - 12:00 NOON	Speaker: Dipendra Prasad (IIT, Bombay) Title: Element wise containment among representations of a group.
12:00 - 12:40 PM	Sharing Memories by Ravi Rao, Jugal Verma, Manoj Yadav, Sugandha Maheshwary, …
6:30 - 7:20 PM	Speaker: Leo Margolis (Institute of Mathematical Sciences, Madrid, Spain) Title: The unit group of a group ring.
7:20 - 8:00 PM	Sharing memories by S.G. Dani, Raman Parimala, Sujatha Ramdorai, Satish Bhatnagar, …

JOIN THROUGH GOOGLE MEET

https://meet.google.com/bqq-gdpa-dqu

CHAIRPERSON
Dinesh Khurana

Abstracts

26 October 2021

Speaker: A.W.Hales (University of California, Los Angeles)

Title: Inder Bir Passi: Group Rings and Memories
Abstract: This talk will survey the 11 papers Inder Bir and I co-authored over a 40-year collaboration period, with interspersed memories (and pictures).

Speaker: Speaker: Dipendra Prasad (IIT, Bombay)

Title: Element wise containment among representations of a group.
Abstract:For two representations V and W of a group G, we define a weaker notion of containment of W inside V, denoted $W < V$, which we call W immersed in V, if for every element $g \in G$, the eigenvalues of the action of g on W (counted with multiplicity) is contained in the eigenvalues of g (counted with multiplicity) acting on V. Although this notion arose in the study of automorphic representations, it seems to be of independent interest for representations of finite groups that we will discuss here.

Speaker: Leo Margolis (Institute of Mathematical Sciences, Madrid)

Title: The unit group of a group ring
Abstract: I will revise several ideas of Prof Passi and their influence on my research. This includes three basic questions: How far is a unit of finite order in an integral group ring ZG from being trivial, i.e. of shape $\pm g$? Can the isomorphism type of a finite p-group be recovered from its group algebra over a field of characteristic p? When one decomposes any unit of an integral group ring in a semisimple and a nilpotent part, as in a Jordan normal form, will the factors still be integral? This is joint work with various colleagues including A. Bächle, F. Eisele, Á. del Río, D. García and G. Janssens.