

**TATA INSTITUTE OF FUNDAMENTAL RESEARCH
SCHOOL OF MATHEMATICS**

“40 Years of the Eta Invariant – A meeting to remember V. K. Patodi”

Lecture Schedule for the period : August 3-7, 2015

Day/Dates	Venue	Paul F. Baum	Erik van Erp
Monday, Aug 03	AG 66	<i>Dirac operator</i> (11:30 – 12:30 hrs)	<i>Dirac operators, spinors, connections</i> (16:00 – 17:00 hrs)
Tuesday, Aug 04	AG 66	<i>Atiyah-Singer Revisited</i> (11:30 – 12:30 hrs)	<i>The heat kernel</i> (16:00 – 17:00 hrs)
		<i>Remembering V. K. Patodi</i> (Screening of short video talk by Prof. M. S. Narasimhan)	-
Wednesday, Aug 05	AG 66	<i>What is K-homology?</i> (11:30 – 12:30 hrs)	-
	AG 69	-	<i>The index density of an elliptic operator</i> (16:00 – 17:00 hrs)
Thursday, Aug 06	AG 66	<i>Beyond Ellipticity</i> (11:30 – 12:30 hrs)	<i>The local index formula</i> (16:00 – 17:00 hrs)
		<i>Remembering V. K. Patodi and his reminiscences</i> (Talk by Prof. S. Ramanan) (12:30 – 13:00 hrs)	-
Friday, Aug 07	AG 66	<i>The Riemann-Roch Theorem</i> (11:30 – 12:30 hrs)	-
	AG 69	-	<i>The Eta invariant</i> (16:00 – 17:00 hrs)

Tea / Coffee Sessions – all days :

- Morning : 11:00 hrs in East Canteen
- Evening : 17:00 hrs in East Canteen