# International Conference on Algebraic Geometry and Coding Theory

IIT Bombay, Mumbai, India, December 2-6, 2013

## Schedule of Lectures

**Revised: December 3, 2013**

**Venue:** Seminar Room No. 12, Victor Menezes Convention Centre (VMCC), IIT Bombay, Powai, Mumbai

<table>
<thead>
<tr>
<th>Mon Dec 2</th>
<th>Tue Dec 3</th>
<th>Wed Dec 4</th>
<th>Thu Dec 5</th>
<th>Fri Dec 6</th>
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<tr>
<td>9.30-10.30</td>
<td>9.30 – 10.00 Registration</td>
<td>Chair: Kabatiansky</td>
<td>Chair: Tsfasman</td>
<td>Chair: Johnsen</td>
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<td>10.00 – 10.30</td>
<td>Trygve JOHNSEN</td>
<td>Gilles LACHAUD</td>
<td>Johan HANSEN</td>
<td>Grigory KABATIANSKY</td>
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<tr>
<td>10.30-11.00</td>
<td>Inauguration</td>
<td>Trygve JOHNSEN</td>
<td>Gilles LACHAUD</td>
<td>Johan HANSEN</td>
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<td>11.00-12.00</td>
<td>Tea/Coffee Break</td>
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<td>12.15-13.15</td>
<td>Chair: Lachaud</td>
<td>Olav GEIL</td>
<td>Ferruh OZBUDAK</td>
<td>Heeralal JANWA</td>
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<tr>
<td>13.15-15.00</td>
<td>Alp BASSA</td>
<td>Chair: Hansen</td>
<td>Chair: Sane</td>
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<td>15.00-16.00</td>
<td>Chair: Hansen</td>
<td>Chair: Sane</td>
<td>Chair: Sastry</td>
<td>Chair: Høholdt</td>
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<tr>
<td>16.00-16.30</td>
<td>Chair: Hansen</td>
<td>Chair: Sane</td>
<td>Chair: Sastry</td>
<td>Chair: Høholdt</td>
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<tr>
<td>16.30-17.30</td>
<td>Chair: Hansen</td>
<td>Chair: Sane</td>
<td>Chair: Sastry</td>
<td>Chair: Høholdt</td>
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**NOTE:**

1. Affiliations of speakers and titles of talks are given overleaf. Abstracts are given in a separate document.

2. Lunch as well as Tea/Coffee will be served on the first floor of VMCC near the venue of the conference.

3. Dinner for outstation participants will be served during 19:30 to 21:00 in the small banquet room of Gulmohar Restaurant (Second floor of the Gulomohar building, opposite Vanvihar Guest House, IIT Campus).

4. Transport will be provided for participants staying in hotels outside the IIT campus to bring them (around 09:00) to the venue of the conference and to take them back after dinner (at about 21:00).
Tom HØHOLDT, Technical University of Denmark, Lyngby, DENMARK  
Graph Codes with Reed-Solomon Component Codes

Masaki HOMMA, Kanagawa University, Hiratsuka, JAPAN  
Numbers of points of surfaces in $\mathbb{P}^3$ over $\mathbb{F}_q$

Yves AUBRY, Université Aix-Marseille, Marseille, FRANCE  
On three-valued Weil sums

Fernando PINERO, Technical University of Denmark, Lyngby, DENMARK  
On linear codes from the Grassmannian and affine Grassmannian

Trygve JOHNSEN, University of Tromsø, Tromsø, NORWAY  
Linear codes and Stanley-Reisner rings associated to matroids

Alp BASSA, Sabanci University, Istanbul, TURKEY  
Rational points on curves over finite fields and Drinfeld modular varieties

Harish K. PILLAI, Indian Institute of Technology Bombay, Mumbai, INDIA  
Multisequences, their extensions and applications

Evgeny SMIRNOV, Lab. Poncelet and the Higher School of Economics, Moscow, RUSSIA  
Schubert decomposition for double Grassmannians

Shashikant A. KATRE, University of Pune, Pune, INDIA  
Jacobi sums and MDS codes

Gilles LACHAUD, Institut de Mathématiques de Luminy, Marseille, FRANCE  
Asymptotic distribution of the number of points of curves over finite fields

Olav GEIL, Aalborg University, Aalborg, DENMARK  
Affine variety codes are better than their reputation

Johan P. HANSEN, Aarhus University, Aarhus, DENMARK  
Osculating spaces of varieties, forms and linear network codes

Ferruh OZBUDAK, Middle East Technical University, Ankara, TURKEY  
Uniqueness of $\mathbb{F}_q$-quadratic perfect nonlinear maps from $\mathbb{F}_q^3$ to $\mathbb{F}_q^2$ and existence of non-extendable $\mathbb{F}_q$-quadratic perfect nonlinear maps from $\mathbb{F}_q^4$ to $\mathbb{F}_q^3$

N. S. Narasimha SASTRY, Indian Statistical Institute, Bangalore, INDIA  
Ovoids in $PG(3; q)$, $q$ even, and related algebraic codes

Ilaria CARDINALI, University of Siena, ITALY  
On polar Grassmann codes

Arunkumar R. PATIL, SGGS Institute of Engineering & Technology, Nanded, INDIA  
Higher weights of some special Grassmann codes

Grigory KABATIANSKY, Dorobushin Math. Lab., IITP and Russian Academy of Sciences, RUSSIA  
Generalizations of nonbinary Reed-Muller codes via construction sum of tensor product codes

Heeralal JANWA, University of Puerto Rico, San Juan, Puerto Rico, USA  
Further results on exceptional APN functions

Krishna V. KAIPA, Indian Institute of Science Education and Research, Bhopal, INDIA  
Asymptotic formulae for the number of MDS codes/arcs in Galois geometries

Michael A. TSFSAMAN, Lab. Poncelet/CNRS/Independent Univ. of Moscow/IITP, Moscow, RUSSIA  
Points on Surfaces