

**PRE-SEAMS SCHOOL PROGRAMME**

	<b>Saturday 31 October 2015</b>	<b>Sunday 1 November 2015</b>	<b>Monday 2 November 2015</b>
<b>0845-0900</b>	Welcoming Remarks/ Registration	Registration	Registration
<b>0900-1000</b>	<i>Isamiddin Rakhimov</i> "Groups"	<i>Hishamuddin Zainuddin</i> "Angular Momentum Algebra in Quantum Mechanics"	<i>Mahendran Shitan</i> "Review of Basic Matrix Algebra, Random Vectors & Matrices, Mean Vectors, Covariance & Correlation Matrices, Concentration Matrix, Independence"
<b>1000-1030</b>	Coffee Break	Coffee Break	Coffee Break
<b>1030-1130</b>	<i>Isamiddin Rakhimov</i> "Rings"	<i>Hishamuddin Zainuddin</i> "Tensor Product States and Composite Angular Momenta"	<i>Mahendran Shitan</i> "Gaussian Multivariate Distribution, Marginal & Conditional Distributions"
<b>1140-1240</b>	<i>Mohd Rushdan Md Said</i> "Divisibility of Integers"	<i>Mohd Rushdan Md Said</i> "Diophantine Equations"	<i>Mahendran Shitan</i> "Contingency Tables"
<b>1250-1420</b>	Lunch	Lunch	Lunch
<b>1420-1520</b>	<i>Mohd Rushdan Md Said</i> "Congruence"	<i>Mohd Rushdan Md Said</i> "Quadratic Reciprocity"	<i>Habshah Midi</i> "Design & Analysis of Experiments"
<b>1530-1630</b>	<i>Hishamuddin Zainuddin</i> "Quantum Mechanics, Hilbert Spaces and Bra-Ket Formalism"	<i>Isamiddin Rakhimov</i> "Modules"	<i>Habshah Midi</i> "Design & Analysis of Experiments"
<b>1640-1740</b>	<i>Hishamuddin Zainuddin</i> "Symmetries & Conserved Quantities in Quantum Mechanics"	<i>Isamiddin Rakhimov</i> "Algebras"	<i>Habshah Midi</i> "Design & Analysis of Experiments"
<b>1740-1800</b>	Tea	Tea	Tea

**SEAMS SCHOOL PROGRAMME**

	<b>Tuesday 3 November 2015</b>	<b>Wednesday 4 November 2015</b>	<b>Thursday 5 November 2015</b>		<b>Friday 6 November 2015</b>
<b>0845-0900</b>	Registration	Registration	Registration	<b>0815-0830</b>	Registration
<b>0900-1000</b>	<i>Isamiddin Rakhimov</i> "Group Actions and Applications"	<i>Isamiddin Rakhimov</i> "Commutative Algebras & Hilbert Theorems"	<i>Isamiddin Rakhimov</i> "Elliptic Curves"	<b>0830-0930</b>	<i>Michel Planat</i> "From Quantum Contextuality to Moonshine Maths"
<b>1000-1030</b>	Coffee Break	Coffee Break	Coffee Break	<b>0930-1000</b>	Coffee Break
<b>1030-1130</b>	<i>Hishamuddin Zainuddin</i> "Quantization, Canonical Commutation Relations & Canonical Group"	<i>Hishamuddin Zainuddin</i> "Quantum Information Processing"	<i>Hishamuddin Zainuddin</i> "Kochen-Specker Theorem & Contextuality"	<b>1000-1100</b>	<i>Eva Riccomagno</i> "Algebraic Statistics"
<b>1140-1240</b>	<i>Hishamuddin Zainuddin</i> "Quantum Mechanics on Hyperbolic Surfaces"	<i>Hishamuddin Zainuddin</i> "Entanglement, Bell Inequalities & Other Measures"	<i>Hishamuddin Zainuddin</i> "Quantum Mechanics in Discrete Phase Space"	<b>1110-1210</b>	<i>Eva Riccomagno</i> "Algebraic Statistics"
<b>1250-1420</b>	Lunch	Lunch	Lunch	<b>1210-1430</b>	Lunch
<b>1420-1520</b>	<i>Michel Planat</i> "Number Theory in Quantum Commutation Structures"	<i>Eva Riccomagno</i> "Algebraic Statistics"	<i>Michel Planat</i> "Multiple Qubits in Veldkamp Space"	<b>1430-1530</b>	<i>Isamiddin Rakhimov</i> "Computations in Algebraic Geometry"
<b>1530-1630</b>	<i>Michel Planat</i> "Riemann Hypothesis & Quantum Mechanics"	<i>Eva Riccomagno</i> "Algebraic Statistics"	<i>Michel Planat</i> "Quantum Information in Grothendieck's Coset Space"	<b>1540-1640</b>	<i>Isamiddin Rakhimov</i> "Lie Algebras & Representations"
<b>1640-1740</b>	<i>Isamiddin Rakhimov</i> "Algebraic Geometry & Algebraic Varieties"	Tutorial	<i>Eva Riccomagno</i> "Algebraic Statistics"	<b>1650-1750</b>	Tutorial
<b>1740-1800</b>	Tea	Tea	Tea	<b>1750-1810</b>	Tea

	<b>Saturday 7 November 2015</b>	<b>Sunday 8 November 2015</b>	<b>Monday 9 November 2015</b>
<b>0900-1000</b>	<i>Eva Riccomagno</i> "Algebraic Statistics"	<i>Mohd Rezal Kamel Ariffin</i> "Wrap-Up: ECDLP & ECC"	<i>Andreas Enge</i> "Exponential & Subexponential Algorithms for the DLP II"
<b>1000-1030</b>	Coffee Break	Coffee Break	Coffee Break
<b>1030-1130</b>	<i>Mohd Rezal Kamel Ariffin</i> "Introduction to Cryptography, Complexity Running Times & Determining Primes"	<i>Andreas Enge</i> "Elliptic Curves over Finite Fields I"	<i>Andreas Enge</i> "Pairings on Elliptic Curves I"
<b>1140-1240</b>	<i>Mohd Rezal Kamel Ariffin</i> "Integer Factorization (IFP)"	<i>Andreas Enge</i> "Elliptic Curves over Finite Fields II"	<i>Andreas Enge</i> "Pairings on Elliptic Curves II"
<b>1250-1420</b>	Lunch	Lunch	Lunch
<b>1420-1520</b>	<i>Mohd Rezal Kamel Ariffin</i> "Applications of IFP"	<i>Andreas Enge</i> "Hyperelliptic Curves"	Discussion Session on Applications of Algebra in Cryptography
<b>1530-1630</b>	<i>Mohd Rezal Kamel Ariffin</i> "Discrete Log Problem (DLP)"	<i>Andreas Enge</i> "Exponential & Subexponential Algorithms for the DLP I"	Discussion Session on Applications of Algebra in Quantum Physics
<b>1640-1740</b>	<i>Mohd Rezal Kamel Ariffin</i> "Applications of DLP"	Tutorial	Discussion Session on Applications of Algebra in Statistics
<b>1740-1800</b>	Tea	Tea	Tea