



THE HONG KONG UNIVERSITY OF SCIENCE & TECHNOLOGY

Department of Mathematics

## SEMINAR ON PURE MATHEMATICS

Speaker: <b>Dr. Umut Varolgunes</b> Bogazici University		Title : <b>Relative invariants and mirror symmetry</b>
Date	Time	Venue
<b>17 Apr 2023 (Mon)</b>	<b>10:00-12:00nn</b>	<b>Room 4475 (Lifts 25/26)</b>
Lecture 3: <u>Locality by complete embeddings and MS for symplectic cluster manifolds</u> Apply Localness of relative theory to mirror symmetry for a family of four dimensional symplectic manifolds admitting nodal Lagrangian torus fibrations. (work with Yoel Groman.)		
Lecture 4: <u>Mirror formal schemes of symplectic manifolds equipped with generalized cut decompositions</u> Generalized Delzant subdomains of symplectic manifolds and their relative symplectic cohomology. Construction of a mirror formal scheme over the Novikov ring.		
<b>18 Apr 2023 (Tue)</b>	<b>3:00-5:00pm</b>	<b>Room 5562 (Lifts 27/28)</b>
Lecture 5: <u>Homological mirror symmetry</u> A proof of homological mirror symmetry in the context of Lecture 3. Construction of the HMS functor.		

*All are Welcome!*