集中講義

位相幾何学特選
微分位相幾何学特論(修)
幾何学特殊講義ＨⅡ(博)

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談話会	10月9日(月) 16：00～ **Solving differential equations from quantum cohomology** Quantum cohomology originated (as the name suggests) in physics, but it has led to unexpected links between different areas of mathematics: topology, differential geometry, integrable systems, and various novel algebraic structures. After an introduction to these ideas we shall explain a concrete example, the tt*-Toda equations. These are nonlinear p.d.e. which admit special solutions related to geometry and physics. Solving these differential equations requires a non-standard combination of techniques, but the results exhibit interesting algebraic structure.
講義期間・題目・内容	10月10日(火)～10月13日(金) 各日　15：00～18：00 **From differential geometry to tt*-geometry** In this course students will learn how basic knowledge of geometry and topology can lead to topics of current research. There will be a focus on concrete examples such as the tt* equations (topological-antitopological fusion equations). The course will also illustrate the importance of combining methods from different areas of mathematics.
備考	談話会は、対面 (場所：川井ホール) とリアルタイム配信を実施します。講義は対面およびオンラインで実施します。詳細は数学専攻ポータルサイトに掲載いたします。