

# *Symplectic Topology Conference*



**Speaker:** **Tian-Jun Li**  
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**Title:** Symplectic forms on almost complex 4-manifolds

**Abstract:**

We discuss whether two natural subspaces of the 2nd De Rham cohomology of an almost complex manifold actually give rise to a decomposition. We also calculate and estimate the dimension of each subspace in dimension 4. This is a joint project with Tedi Draghici and Weiyi Zhang, and is partially motivated by a question of Donaldson on tamed and compatible symplectic forms on almost complex 4-manifolds.