

## ***A LEFSCHETZ THEOREM FOR CRYSTALLINE REPRESENTATIONS***

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**Time: Friday, May. 22th, 16:00-17:00**

**Venue: Room 106, SCMS**

### **Abstract:**

As a corollary of nonabelian Hodge theory, Simpson proved a strong Lefschetz theorem for complex polarized variations of Hodge structure. In this talk, I will introduce an arithmetic analog. The primary technique is  $p$ -adic nonabelian Hodge theory. This is based on joint work with Raju Krishnamoorthy and Kang Zuo.