

**Bay Area Differential Geometry Seminar**  
**Saturday, February 25, 2017**  
**MSRI, Berkeley**

**First Announcement**

*The seminar will take place from 10AM to 5PM on Saturday, February 25, 2017. Participants and their significant others are invited to a dinner at a local restaurant on Saturday evening. The cost of the dinner will be reduced for students and postdocs. Details are on the signup page (which you can access by this link: [signup list](#)).*

*Directions to MSRI are available on the website [msri.org](http://msri.org).*

- 10:00–11:00 **Reception, Morning Coffee**

- 11:00–12:00 **Adam Jacob, UC Davis:** *Singular instantons with applications to  $G_2$  manifolds.*

Given a complete Kähler manifold  $X$  with a cylindrical end, in this talk I will prove existence of a singular Hermitian-Yang-Mills connection over  $X$ . Furthermore, I will demonstrate how to achieve exponential decay of a solution along the cylindrical end, and how to understand the structure of the singularity in certain cases. This work has applications to the study of  $G_2$ -instantons, and is joint with H. Sa Earp and T. Walpuski.

- 12:00–1:45 **Lunch**

*We will have lunch at MSRI. Orders for food will be placed before the first lecture.*

- 1:45–2:00 **BADG organizational meeting.**

- 2:00–3:00 **Christos Mantoulidis, Stanford and MIT:** *TBA.*

- 3:00–4:00 **Afternoon Tea-Coffee**

- 4:00–5:00 **Laura Fredrickson, Stanford:** *TBA.*

- 6:00 **Dinner** *Please sign up using the link [signup list](#) at the top of this announcement.*