



# 498th ASRC Seminar



Date: 10:30 - 12:00, 16th January

Location: Meeting room 103, ASRC Building

Speaker: Prof. Zachary Fisk

(R.G. for Actinide Materials Science  
& University of California)

Title: SmB6: topological insulator?

Theory has proposed that the prototypic Kondo insulator SmB6 is a strong topological insulator. Experimental measurements of electrical resistivity and Hall constant provide support for this possibility. These results will be presented within the context of a general discussion of the properties of rare earth hexaborides. The actinide Np, Pu and Am hexaborides are known to exist but their electrical and magnetic properties have not been reported, and they appear as an interesting set of materials for detailed study.



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