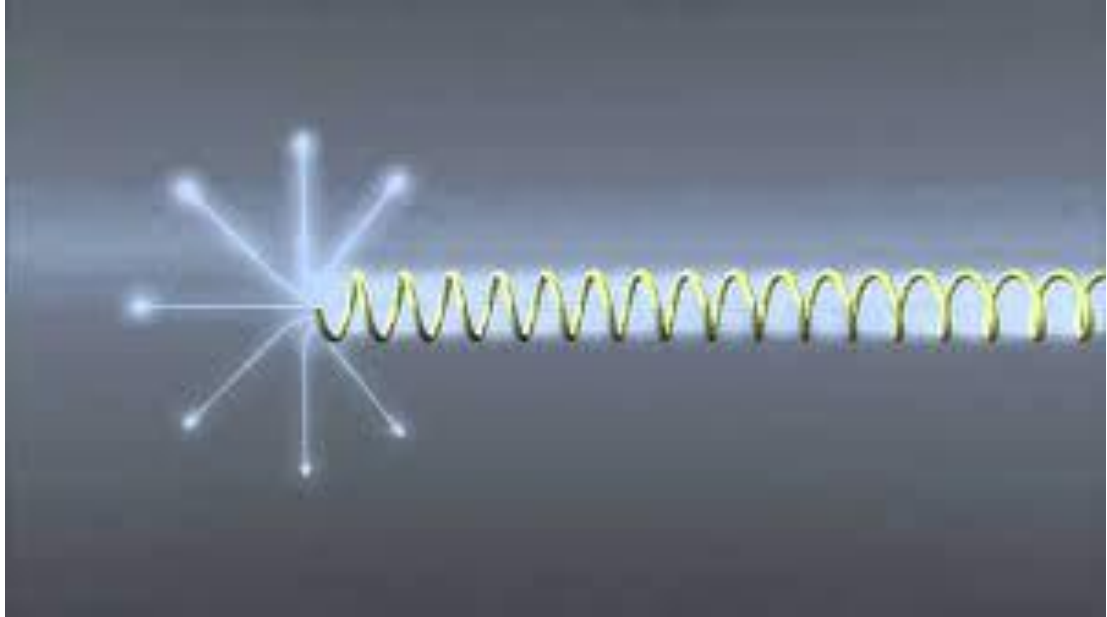




# PHYSICS COLLOQUIUM



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## **A new look at Dirac's model for magnetic charge**

### **Abstract**

In this I review Dirac approach to magnetic charge which involves the singular Dirac string potential. I show how this gives rise to the Dirac quantization condition and how the system of a magnetic charge plus electric charge (a Thomson dipole) carries a field angular momentum despite having no moving parts. I then show that there are some long overlooked features of the Dirac string potential which strongly call into question the existence of magnetic charge.

**3:00 p.m. - 4:30 pm, Friday, February 10<sup>th</sup>,**  
**In-Person: McLane 162**