

**Functional Analysis and Mathematical Physics**  
**Interdepartmental Research Group**  
**(FAMP)**  
**Colloquium Series**  
**Fall 2017**

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*Talk 3: A Basic Introduction to Gauge Theory*

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**Abstract.**

Maxwell's equations have an underlying and important symmetry that was only discovered and formalized in the 1920s by Weyl and others. All interactions can be thought of as gauge interactions in some sense. We will review the basic feature of E&M as an Abelian gauge theory. Time permitting, we will also discuss non-Abelian gauge theories.

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**Wednesday, September 20, 2017, 1:00-2:00 PM, PB 428**