

Friday, April 17, 2015, 4:10 pm

COLLOQUIUM TALK

**Speaker: Harold Diamond**

UIUC

Old Main 2231

## Series for the Euler Gamma Function

**Abstract:**

We give a new and simple way of deriving an asymptotic expansion for the logarithmic derivative of the Euler gamma function. The truncations of the series provide upper and lower bounds. The key idea is to find a representation of  $1/x$  as a difference  $F(x+1) - F(x)$ , and make a backward induction.

SNACKS IN FACULTY LOUNGE AT 3:30 PM.  
EVERYONE WELCOME (EVEN IF YOU ARE UNABLE TO ATTEND THE TALK)

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