

**Functional Analysis
and Mathematical Physics
Interdepartmental Research Group
(FAMP)**

**Colloquium Series
Fall 2017**

Talk 2: *On the Mean Ergodicity of Weak Solutions
of an Abstract Evolution Equation*

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Abstract

Found are conditions of rather general nature sufficient for the existence of the limit at infinity of the *Cesàro means*

$$\frac{1}{t} \int_0^t y(s) ds$$

for every *bounded weak solution* $y(\cdot)$ of the abstract evolution equation

$$y'(t) = Ay(t), \quad t \geq 0,$$

with a closed linear operator A in a Banach space X .

Wednesday, September 13, 1:00-2:00 PM, PB 428