

Functional Analysis and Mathematical Physics
Interdepartmental Research Group
(FAMP)
Colloquium Series
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*Talk 6: On the Nature of Expansions on Totally Bounded
Metric Spaces and More*

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Abstract

While proving a known description of expansions on compact metric spaces, we observe that the condition of compactness appears to be excessive, so we search for a weaker, but still sufficient one.

Initially, we attempt to relax the condition of compactness to boundedness, but this falls short of being sufficient. However, compactness tempered to total boundedness is shown to be sufficient, but, unfortunately, not necessary for the description to remain true.

We also characterize boundedness in terms of certain specific expansions we call anticontractions.

Friday, April 6, 2018, 2:00-3:00 PM, PB 428