

# Physics Colloquium

“Emergence of Gravity in Large N Many-body Systems”

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Thursday, March 19, 2020  
4:25PM  
Lewis Lab. 316



Emergence of Space-Time and Gravity has been a hallmark of major investigations in Theoretical physics. At the grand scale this is a relationship between String theory and Yang-Mills gauge theories. Great insight and progress have however been achieved in study of simple Large N systems, such as that of Random Matrices and the Sachdev-Ye-Kitaev model. The later will be the focus of this talk, with Gravity emerging as a collective phenomena.

***Antal Jevicki** is a professor of Theoretical Physics at Brown University. He has received his PhD degree from CUNY, New York and was a member of the Institute for Advanced Studies, Princeton. His past research spans investigations of Nonperturbative Phenomena in QFT, Large N Collective phenomena, String Theory and Gravity. His latest interest lies in the overlap of Condensed Matter and High Energy Physics.*