



## **ICTS String Seminar**

- Title : Deformations of JT Gravity and Matrix Models
- Speaker : Edward Witten (IAS, Princeton)
- Date : Friday, July 17, 2020
- Time : 05:30 pm
- Abstract : Recently it was shown by Saad, Shenker, and Stanford that JT gravity in two dimensions is dual not to any particular quantum system but to a random ensemble of quantum systems. I will explain that if one deforms JT gravity by adding a self-coupling of the scalar field, the resulting model is still dual to a random ensemble of quantum systems, with a different density of energy levels. I will also briefly describe work of Maxfield and Turiaci, who made a similar analysis in two dimensions and related it to issues in three-dimensional gravity.
- ICTS virtual seminar : Please register at  
[docs.google.com/forms/d/e/1FAIpQLSf0jLgoqiOgDnxbEBGiulWiOmh9WX8caH-pr13qDBZOO91img/viewform](https://docs.google.com/forms/d/e/1FAIpQLSf0jLgoqiOgDnxbEBGiulWiOmh9WX8caH-pr13qDBZOO91img/viewform)

(Links to join the seminars will be sent to your registered email address)

Recordings of past talks can be found here:

<https://www.youtube.com/channel/UCw9LdPQ5t7Q7muD0qzn70TA>