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**Andrey L Shilnikov\*** ([ashilnikov@gsu.edu](mailto:ashilnikov@gsu.edu)), Atlanta, GA 30303. *Measuring Chaos in the Lorenz and Rössler models. ML-based "Turing" test.* Preliminary report.

The talk has two parts. The first is focused on a new symbolic approach to quantify chaos in two canonical systems, Lorenz and Rossler. Having developed the computation toolkit, in the 2nd part we compare chaos in the original models with that simulated by recurrent neural networks using reservoir computing, (Received January 14, 2021)