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Rank Saturation in finite size Entanglement Spectrum for Quantum Hall states BENOIT ESTIENNE, BOGDAN A. BERNEVIG, Princeton University, RAOUL SANTACHIARA, LPTMS Orsay — We investigate analytically in finite size the entanglement spectrum arising from real-space cuts for fractional quantum Hall states. We provide a proof that the rank of the reduced density matrix is saturated for the Laughlin state even on finite sizes.

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