A saturation model for impaired learning with enhanced plasticity

based on work in preparation by: T.D. Barbara Nguyen-Vu, Grace Q. Zhao, Han-Mi Lee, SL, Surya Ganguli, Carla J. Shatz, Jennifer L. Raymond

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July 9, 2013



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F0-70-61

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—Outline

- 1. review terrible properties of simple synapses.
- 2. mathematical formalism of model, quantify performance (memory decay over time)
- 3. upper bounds on single numbers that depend on whole memory curve (deca over time)
- 4. upper bounds at finite times

References