Non-Volatile Computers for low power consumption

- Objective: To enable nonvolatile computing using Spin Transfer Torque Random Access Memory (STT-RAM)
  - STT-RAM is a non-volatile memory, needing no power to retain its state
  - This results in significantly lower energy consumption
  - Reduction of Critical Current Density required for a write can further reduce the Power consumption

- No Booting!
- Computers mostly idle (>98%)
- No Static dissipation
- Green

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Schematic of element for perpendicular spin-transfer-torque MRAM

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