Could we implement a PUF on a simple AVR microcontroller?

Discovering of a possibility to use initial SRAM content for device identification and key generation.

**Experimental Setup**
- 10 Atmel ATmega 1284p
- 3000 SRAM readouts

**Measurements**
- Statistical analysis of SRAM PUF:
  - Uniqueness
  - Stability
  - Predictability
  - Correlation
  - Environmental effects

**Results**
- Chips can be identified by the initial content of SRAM after applying correction with repetition factor. SRAM can be used to generate stable key