

## **Analog Memory for Neuromorphic applications**

The Human Brain is amazingly fast and power efficient when it comes to perform cognitive tasks. With a total capacity of around 1-1000TB memory and power consumption in the mW range it is an inspiring candidate for processors in computers to be used in the future. In order to implement Brain inspired processors we need to have a completely different kind of architecture and devices that mimic the highly complex and parallel architecture, neurons and synapses found in our Brain respectively. Analog memory cells showing synaptic behaviour along with multi-bit storage and self-correcting properties can prove highly effective in processors that can make a computer perform cognitive tasks, just like our brain does.