

Monday July 15<sup>th</sup> 2019 - 11h 00

Amphitheater of C2N

# Reservoir computing using magnetic nano-dots system and Brownian computing using skyrmions

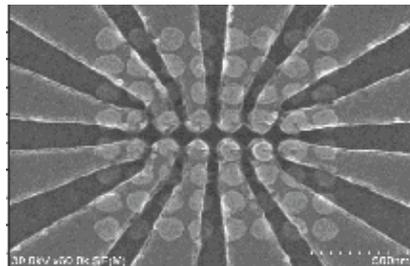
## Yoshishigue Suzuki

*(Graduate school of Engineering Science, Osaka University)*



First, I introduce our design of reservoir computer using MRAM technology. Then, I will talk about recent progresses in making Brownian computer using skyrmions. Brownian computing is a method to perform calculation with ultra-low energy consumption.

Up to now, we have succeeded in making a Hub (branch of skyrmion channel) and in voltage control of the diffusion. Ratchet and C-join are also essential devices that we need to realize.



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