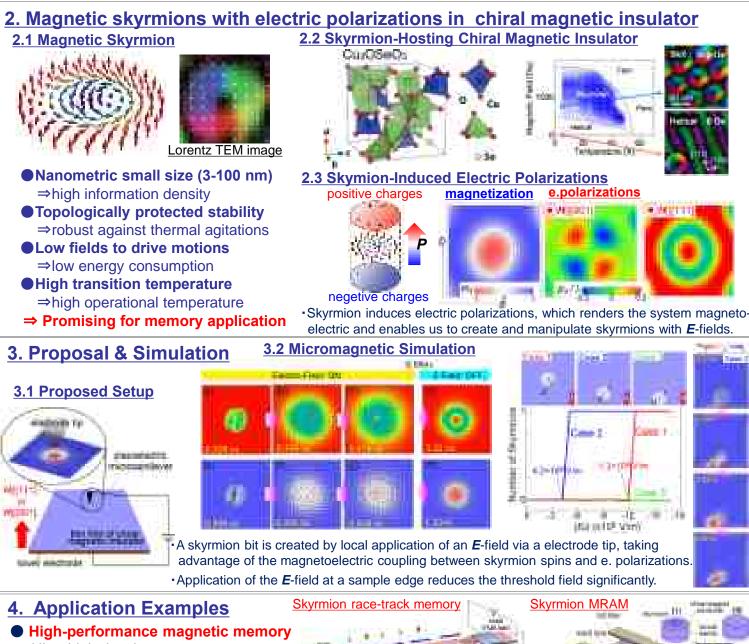
# **Skyrmion Memory**

## Efficient Method to Write Skyrmion Bits in Magnetic Storages

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### 1. Introduction

- O Topological spin vortices called **<u>skyrmions</u>** in chiral magnets have numerous advantageous properties for application to information carriers in next-generation magnetic memories.
- O A new efficient method to create skyrmions on a thin-film specimen by applying an *E*-field without Joule-heating energy losses.



- Ultra-high density,
- Ultra-low energy consumption
- Non-volatile, Robust, -Random access
- No mechanical elements

#### 5. Patent Licensing Available Patent No.: WO2016/158230 JST/ IP Management and Licensing Group Phone: +81-3-5214-8486 E-mail: <u>license@jst.go.jp</u>

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