

P-27 Dita Puspita Sari

RIKEN Advanced Meson Science Laboratory
e-mail: dita.puspitasari@riken.jp

2013 Tenth of November Institute of Technology
Surabaya, Indonesia, Master (Physics)
2015 Junior Research Associate, RIKEN
2017 Osaka University, D3 (Physics)



Organic Superconductor λ -(BETS)₂GaCl₄ Study by Muon Spin Rotation

The appearance of two bands crossing the Fermi level and the short coherence length of organic superconductors (SC) lead to the observation of two gaps. However, recent experimental studies give differently debatable results, especially on λ -(BETS)₂GaCl₄ which has the highest $T_c = 5$ K among reported λ -type organic SC containing Se atoms. A bunch polarized muon injected to the bulk λ -(BETS)₂GaCl₄ sample is very sensitive to the field distribution of superconducting flux line lattice in fields of 30 G and 60 G down to the temperature at 0.3 K. From this muon spin rotation (μ SR) spectroscopy conducted at RIKEN-RAL Muon Facility in the UK we observed the possibility of mixture *s*- and *d*- wave pairing symmetry of this compound and will report the results.