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広帯域雷放電観測装置の開発とその応用
Development of broadband lightning monitoring system and its application

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We have been designing and developing Broadband Observation network for Lightning and Thunderstorm (BOLT) in Kinki area to study lightning discharges and thunderstorms. The BOLT consists of 11 sensors which detect LF radiation form lightning discharge and locate emission sources in 3D. We have been developing both hard ware and algorithm to locate lightning so that the BOLT produces detail progression of lightning discharges, including stepped leader and negative recoil leader in negative charge region. In this presentation, we show clear 3D BOLT images of lightning discharges and compare the results with VHF source locations.

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