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Development of the Waseda CALET Operations Center (WCOC) for Scientific Operations of CALET

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The CALET project aims at a long duration observation of high energy cosmic rays onboard the International Space Station (ISS). The CALET detector features a very thick calorimeter of 30 radiation-lengths which consists of imaging and total absorption calorimeters. It will directly measure the cosmic-ray electron spectrum in the energy range of 1GeV–20TeV with 2-% energy resolution.

The data obtained with CALET onboard ISS will be transferred to JAXA using two data relay satellite systems operated by NASA and JAXA, respectively. To operate the CALET onboard ISS, the CALET Ground Support Equipment (CALET-GSE) is being prepared in JAXA. Simultaneously, Waseda CALET Operations Center (WCOC) is being established to perform operations and monitoring related to the scientific mission. The real-time data received by CALET-GSE is immediately transferred to WCOC. Scientific raw data are also transferred to WCOC on an hourly basis after time-order correcting and complementing replay data.

Mission operations at WCOC includes (1) real-time monitoring and operations, (2) operations planning, and (3) and processing raw, level-0, scientific data to level-1 data that will be used for scientific analysis. In this paper we will review the role of WCOC and report on its development.

Collaboration

CALET

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