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## The sPHENIX Calorimeter System

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sPHENIX experiment is proposed to succeed the current PHENIX experiment at the Relativistic Heavy Ion Collider (RHIC). sPHENIX experiment is capable of measuring jets, jet correlations and upsilons to determine the temperature dependence of transport coefficients and the color screening length in the quark-gluon plasma. From January to February 2017, sPHENIX Collaboration conducted test beam experiment at Fermilab Test Beam Facilities to study the performance of the 2017 prototype electromagnetic calorimeter and hadronic calorimeter. In this talk, we will present our studies on the light collection efficiency and uniformity of light guides for the sPHENIX electromagnetic calorimeter. Test beam data acquisition, electromagnetic shower calibrations, hodoscope position corrections, and position scan analysis for electromagnetic calorimeter will be discussed.

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