

Abstract Submitted  
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**Time-of-Flight detector for GlueX experiment** ALEXANDER OSTROVIDOV, Florida State University, GLUEX COLLABORATION — Design and construction of the Time-of-Flight detector (TOF) for the upcoming GlueX experiment at Jefferson Lab will be discussed. TOF is a 2-dimensional wall of 2.5m long scintillator counters with 176 channels of flash ADC and TDC readout. The choice of the wrapping and gluing materials, design of the light guides, selection and performance of the photo multipliers and electronics will be reviewed. Impact of the electromagnetic rates and PMT longevity on the choice of TOF geometry will be discussed. Construction techniques and tools will be presented. Testing methods for individual TOF components as well as completed modules will be shown. The achieved TOF timing resolution in the preliminary cosmic ray tests is 90ps.

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