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4.11 Neutron and gamma imaging aperture design for the National Ignition Facility

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The first neutron imaging system has proven to be a valuable tool for understanding the hot spot and cold fuel regions of imploding capsules. Changing the timing of the recording system allowed us to prove that we can use a similar setup to collect gamma images of the capsules. The design of the third line of sight pinhole incorporates the needs of both of these image types. This poster/paper will describe the design criteria and solution for this complex aperture array. LA-UR-18-20205

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