



# HASP Payload Specification and Integration Plan

**Payload Title:** CajunSat III: Passive Cosmic Ray Experiment

**Payload Class:** Small  **Large**  (circle one)

**Payload ID:** 12

**Institution:** University of Louisiana at Lafayette

**Contact Name:** Ross Fontenot

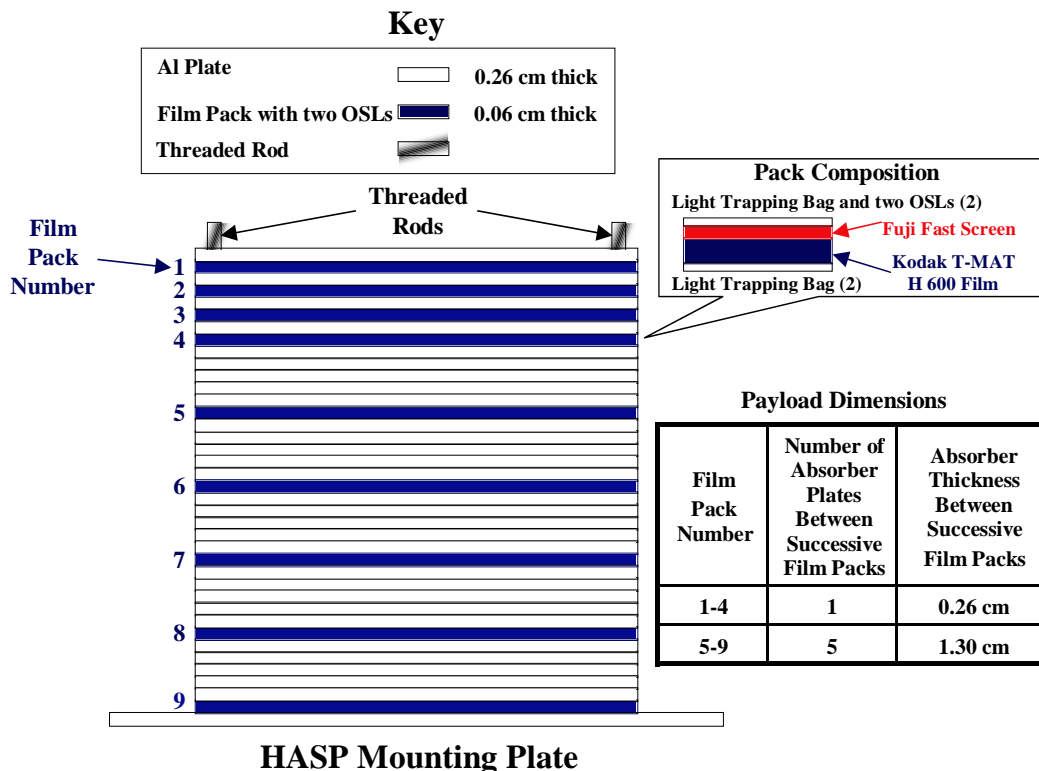
**Contact Phone:** (337) 831-4513

**Contact E-mail:** rsfontenot@hotmail.com

**Submit Date:** 5/26/2007

## I. Mechanical Specifications:

- A. Measured weight of the payload (not including payload plate): **10 kg**
- B. Provide a mechanical drawing detailing the major components of your payload and specifically how your payload is attached to the payload mounting plate





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Our payload is attached by four bolts screwed through the metal and into the HASP mounting plate. Our payload consists of approximately 25 metal sheets of aluminum, 18 Optical Stimulated Luminescence (OSLs), and 9 film packs consisted of a Kodak T-Mat H x-ray film and two Fuji HR Fast screens, 4 bolts, and 4 nuts and washers to mount the payload to the mounting plate. The OSLs will be held in place on the aluminum with epoxy and placed in the same location just above or below the film pack.

- C. If you are flying anything that is potentially hazardous to HASP or the ground crew before or after launch, please supply all documentation provided with the hazardous components (i.e. pressurized containers, radioactive material, projectiles, rockets...)

We have no hazardous materials with this payload.

- D. Other relevant mechanical information

Our payload is completely passive and will contain no electrical or mechanical components.

## II. Power Specifications:

**No Power Requirements for CajunSat III.**

## III. Downlink Telemetry Specifications:

**No Downlink Telemetry Specifications for CajunSat III.**

## IV. Uplink Commanding Specifications:

**No uplink commanding Specifications for CajunSat III.**

## V. Integration and Logistics

- A. Date and Time of your arrival for integration: September 1, 2007 in Ft. Sumner, New Mexico
- B. Approximate amount of time required for integration: (30 minutes)
- C. Name of the integration team leader: Ross Fontenot
- D. Email address of the integration team leader: [rsfontenot@hotmail.com](mailto:rsfontenot@hotmail.com)
- E. List **ALL** integration participants (first and last names) who will be present for integration with their email addresses:

1. Ross Fontenot                      [rsfontenot@hotmail.com](mailto:rsfontenot@hotmail.com)
2. Colt Thibodeaux                      [cdt3242@louisiana.edu](mailto:cdt3242@louisiana.edu)



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- F. Define a successful integration of your payload: Successfully weighing the payload and mounting it to the HASP Platform.
- G. List all expected integration steps:
1. Weigh the Payload.
  2. Put the payload in Slot 12 on the HASP Platform.
  3. Screw our payload into the HASP platform.
- H. List all checks that will determine a successful integration:
- Payload remains in place during flight.
- I. List any additional LSU personnel support needed for a successful integration other than directly related to the HASP integration (i.e. lifting, moving equipment, hotel information/arrangements, any special delivery needs...):
- LSU shipping our payload back to ULL in the prepaid and addressed box provided after the flight is complete.
- J. List any LSU supplied equipment that may be needed for a successful integration:
- Nothing