

Charles R. Lawrence, 1/25/2002 02:06 PM, draft abstract for SPIE, and release authorization

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Hi Kathy,

Here's the abstract:

To reduce internally-generated noise, the SIRTf instruments and telescope are cooled to cryogenic temperatures by liquid helium. The mission lifetime, therefore, depends on the rate of helium evaporation. Through choice of orbit and aggressive use of radiative cooling, SIRTf should achieve an unprecedentedly low level of parasitic heat on the helium. As a result, the mission lifetime will depend primarily on the power dissipation of the instruments, and the way that they are operated. We describe an operational scenario for controlling the telescope temperature that maximizes the helium lifetime.

Authorization attached.