PERFORMANCE IMPROVEMENT OF THE CJlCX FLIGHT CRYOSTAT, T.S. Luchik, U.F. Israelsson, D. Petræ, and S. Elliott, Jet Propulsion laboratory, California institute of Technology, Pasadena, CA 91109. The JPL flight cryostat last flew on the Space Shuttle in October, 1992 in support of the Lambda Point Experiment. A new experiment, the Confined I Iclium Experiment (CJlCX), now in development will reuse this cryostat. An improvement to the cryostat performance was necessitated by the CJlCX experiment having a longer mission requirement and stricter requirements imposed by NASA with respect to a launch-scrub turnaround scenario. The parasitic heat load reduction necessary to relieve both constraints was about 1 So/O or 1 liter/day. The techniques implemented to achieve this goal, and subsequent results are presented along with a thermal model used during the analysis of the cryostat.

1. CJlCX
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