QUARTERLY TECHNICAL PROGRESS REPORT

FOR

STANFORD UNIVERSITY SUB-AWARD NUMBER 14405890-26967

TITLE OF INVESTIGATION: PARTIAL SUPPORT FOR ALGORITHM DEVELOPMENT AND TRANSFER FOR PHASES D AND E OF THE HELIOSEISMIC AND MAGNETIC IMAGER EXPERIMENT


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1 Progress Made Between 2/1/2006 and 4/30/2006

During the first portion of the current quarter we obtained additional results with our “tighter apodization” method and we wrote up a description of these additional results for a 2006 SR&T proposal. In particular, we showed that our most-recent results with this technique were quite promising and they suggested that we continue to pursue this approach to the calculation of $p$-mode frequencies in solar active regions.

During the remainder of the past quarter the PI and Collaborator Jesper Schou discussed various possibilities for carrying out such additional calculations. We agreed that we would begin such work during the current quarter, which began on May 1, 2006. Our initial plans for these additional calculations are to try to compute power spectra for roughly six consecutive days using an elliptical apodization window similar to that presented in our 2006 SR&T proposal.