

# Final Technical Report

**DOE Award Number**

DE-SC0010344

**Award Recipient**

Regents of the University of Michigan  
Ann Arbor, MI

**Project Title**

High Energy Theory Workshops and Visitors at the  
Michigan Center for Theoretical Physics FY14

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August 7, 2014

**Period Covered**

July 15, 2013 – June 30, 2014

## **Report: High Energy Workshops and Visitors at the Michigan Center for Theoretical Physics**

The grant “High Energy Workshops and Visitors at the Michigan Center for Theoretical Physics”, provided support for two workshops: “RG Flows, Entanglement, and Holography Workshop” and “Light Dark Matter: Asymmetric, thermal and non-thermal dark matter and its detection”.

The first of these workshops (RG Flows) was held from September 17-21 with local organizers Henriette Elvang and Jim Liu, and external organizer Matt Headrick (Brandeis). There were a total of 40 participants, 27 of which were external. Surveys were conducted at the end of the workshop to assess the quality of the oworkshop. 25 participants responded (21 internal, 4 external), with 23 ranking the program “Excellent”, and 2 “Good”. Comments indicated that the workshops was “very high quality”. Multiple respondents commented on the stimulating nature of the talks, and indicated that it was “one of the best workshops I have attended in the last several years”. Most speakers were key people in their subjects. The conference website is <http://www.umich.edu/~mctp/SciPrgPgs/events/2012/rgflows/>, with slides available at <http://www.umich.edu/~mctp/SciPrgPgs/events/2012/rgflows/sciprog.html>.

The second workshop (Light DM), was held April 15th-17th with organizers Pierce, Kane, Freese, Zurek, Tulin and H. Yu. It was especially timely as it coincided with the announcement of events seen by the CDMS collaboration consistent with a possible hint of a Light Dark Matter signal. The conference website is available at: <http://www.umich.edu/~mctp/SciPrgPgs/events/2013/dm2013/> with slides for the twenty-five talks given available on-line at <http://www.umich.edu/~mctp/SciPrgPgs/events/2013/dm2013/program.html>.

For the above two workshops, DoE funds helped to defray travel and lodging expenses of a total of 37 external participants. Because the second workshops was slightly shorter, a larger number of participants were able to receive support.

The Young High Energy Theorist visitor program invited a total of 27 visitors, eighteen of whom received full or partial travel support form the DoE (the balance receiving funding from the University). A mix of post-docs and students participated in the program, and gave talks during their visits.