

Final Technical Report

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

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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 workshop. 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 workshop 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 from 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.