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**Background Rejection in the CDMS Dark Matter Search** JEFFREY FILIPPINI, University of California, Berkeley, CDMS COLLABORATION — The Cryogenic Dark Matter Search (CDMS) uses low-temperature semiconductor detectors to search for interactions of weakly interacting massive particles (WIMPs). The CDMS II experiment has recently completed the data analysis of the first data run with its full complement of 30 detectors at Soudan Underground Laboratory. Highly accurate background rejection techniques are required to perform an effective WIMP search at the necessary sensitivities. This talk will focus on the discrimination techniques CDMS uses to suppress backgrounds during this long detector exposure, as well as some directions for future increases in discrimination power.

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