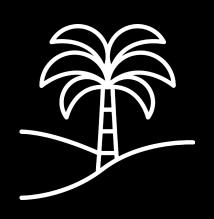


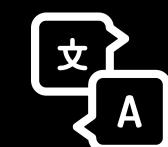
WE SEARCH FOR DP WITH A MASS
AROUND 1.5 eV
USING A DIELECTRIC HALOSCOPE



THE EXPERIMENT IS CALLED MUDHI, WHICH IN ARABIC MEANS "LUMINOUS." IT'S THE FIRST DM EXPERIMENT EVER BEEN OPERATED IN THE MIDDLE EAST!



A DIELECTRIC HALOSCOPE IS COMPOSED OF THREE PARTL: A STACK OF TWO ALTERNATING DIELECTRICS, A LENS, A PHOTOSENSOR.



THE STACK COVERTS DARK PHOTONS INTO ORDINARY PHOTONS, WHICH GET FOCUSSED AND DETECTED BY THE PHOTOSENSOR.



WE DO NOT SEE AN EXCESS OF SIGNAL EVENTS ABOVE OUR BACKGROUND, SO WE PLACE UPPER LIMITS ON THE DARK PHOTON—PHOTON COUPLING CONSTANT AT 90% C.L.