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WHAT SURFACES IN NOBLE LIQUID DARK MATTER DETECTORS OPERATION

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Poster 273



- DM SEARCHES WITH NOBLE LIQUID DETECTORS MOVE TOWARD LOWER ENERGIES AND NON-ELASTIC INTERACTIONS /MULTI-VERTEX EVENTS ANALYSIS (ELBEKA, DARWIN, USE OF MIGDAL EFFECT, ETC.)
- INCONSISTENCIES IN RESPONSES ARE PALING UP
- COMPARISON WITH HELIUM PHYSICS POINTING ON ADVANCED ELECTRON-NOBLE-LIQUID SURFACE EFFECTS: ELECTRON TRAPPING, ACCUMULATION, INTERACTING WITH WAVES, WIGNER CRYSTALLIZATION- **LEADING TO THE DISTORTION OF THE MEASURED EVENT ENERGY SPECTRUM**
- A COMPLEX “PARALLEL REALITY” OF ENERGY AND CHARGES ACCUMULATION AND DELAYED RELEASES NEED TO BE STUDIED IN COLLABORATION WITH MATERIAL & CONDENSED MATTER SCIENTISTS