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The CYGNUS directional search for dark matter below the neutrino floor

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An update is presented on progress towards realising a direction sensitive WIMP dark matter detector called CYGNUS with eventual sensitivity to probe below the neutrino floor. Latest R&D and simulations are presented towards underpinning sensitivity in this region, including new work on use of SF6+He4 gas mixtures to allow sensitivity in the low WIMP mass regime with both direction sensitivity and electron recoil discrimination.

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