

"UCLAUC"- the new analytical ultracentrifugation laboratory at UCL

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Abstract:

Analytical ultracentrifuge (AUC) methods are enjoying a resurgence of interest for reason of new sample detection methods and much improved data handling and structural analyses. BBSRC and Charity funding this year resulted in the purchase of a second AUC for UCL. To illustrate the scope of modern AUC velocity and equilibrium experiments, studies of a monomer-dimer system (complement FH-16/20), protein-protein and protein-carbohydrate interactions (complement FH-6/8 + heparin), and protein polydispersity (SC of IgA antibody) will be summarised. The commissioning of the second AUC now makes possible simultaneous velocity and equilibrium experiments so that protein behaviour in solution can be explored in detail. We discuss what is available and encourage new AUC proposals from UCL colleagues.