



Centre for Doctoral Training in Condensed Matter Physics

CDT-CMP Seminar Series

2pm Tuesday 1st November 2016

'Unexpected Crystals'

Dr. Simon Hall
School of Chemistry, University of Bristol

If we can control the way that crystals grow, we can change the way they behave. Using organic material from biology such as chitin, cellulose and alginate, we can change the way crystals of superconductors, semiconductors and piezoelectric materials grow. In many cases, the physical performance of these materials is greatly enhanced. This seminar shows two important cases that we have researched. One is the inorganic superconducting oxide, $\text{YBa}_2\text{Cu}_3\text{O}_{7-x}$ (YBCO) and the other is an organic molecule called coronene ($\text{C}_{24}\text{H}_{12}$). The crystals we were able to grow were not the crystals we expected!

Room 1.23, HH Wills Physics Building

If you would like to meet with the speaker before or after the seminar,
please contact cdt-cmp@bristol.ac.uk