Condensed Matter Theory Journal Club/PHY663/PHY363

T. Thonhauser, S. Winter, W. C. Kerr, R. T. Williams, and N. A. W. Holzwarth

Spring 2021 Schedule: Thursdays at 12:30-1:30 via Zoom

Some possible papers for discussion are collected in the googledocs folder:
https://drive.google.com/drive/folders/0BwFplNfu9wgafndkeUJNcjNzd2Nva3Vzcmx1MVo3b0JzX0FzTlo1SXdDU2M2ZmJnLUthcmM

Some guidelines for preparing a talk are given in the googledoc:
https://drive.google.com/drive/folders/0BwFplNfu9wgaNndGdUFUdFNjRGM
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To sign up for a talk, please edit this googledoc directly to add or change schedule or contact natalie@wfu.edu

Thursday, Jan 28, 2021 -- Informal “kickoff” meeting
Thursday, Feb 4, 2021 -- Presentation from Deac Cluster Staff
Thursday, Feb 11, 2021 -- WFU cancelled classes due to weather
Thursday, Feb 18, 2021 -- Trick sharing -- Timo, Saif, Trevor
Thursday, Feb 25, 2021 -- Trick sharing -- Haardik, Yan
Thursday, Mar 4, 2021 -- Literature review discussion -- From EKU Gross’s group -- https://journals.aps.org/prl/abstract/10.1103/PhysRevLett.125.256402 (also see perspective -- https://physics.aps.org/articles/v13/196)
Thursday, Mar 11, 2021 -- Practice talks for March Meeting -- Yan and Gabe
Thursday, Mar 18, 2021 -- March APS Meeting
Thursday, Mar 25, 2021 -- Report from March APS Meeting; Timo Thonhauser and Stephen Winters will share their presentations; time permitting, other attendees may wish to share some of their APS meeting inspirations
Thursday, Apr 1, 2021 -- Trevor Jenkins -- "Analyzing s Dependence of vdW Interaction Energies for Various Systems".
Thursday, Apr 8, 2021 -- Yan Li -- "Computational investigation of the structural and electrolyte properties of Li boracites Li4B7O12Cl and Li5B7O12.5Cl"
Thursday, Apr 15, 2021 -- Haardik Pandey -- "Studying H_2O--NO interaction inside Ni-MOF-74 using spectroscopy and computational analysis."
Thursday, Apr 22, 2021 -- Saif Ullah will present his work on "Co-adsorption in metal-organic frameworks as a route to dramatically enhance selective adsorption" and Ajay Kandada will present "Anharmonicity of the hybrid perovskite lattice"
Thursday, Apr 29, 2021 -- Cal Bibeau will make a short presentation on physics-economics connections -- “The relationship between the Black Scholes Model and Schrodinger's Equation” and Cory Lynch will present his beginning results on “Investigation of possible lithium boracite ($Li_4B_7O_{12}Cl$) analogues”.
Thursday, May 6, 2021 -- Feliciano Giustino, U. Texas -- Electron-phonon interactions