

Condensed Matter Theory Journal Club/PHY663/PHY363

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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/0BwFpINfu9wgafndkeUJNcjNzd2Nva3Vzcmx1MVo3b0JzX0FzTlo1SXdDU2M2ZmJnLUthcmM>

Some guidelines for preparing a talk are given in the googledoc:

<https://drive.google.com/drive/folders/0BwFpINfu9wgaNndGdUFUdFNjRGM>

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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 ECU 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 $\text{Li}_4\text{B}_7\text{O}_{12}\text{Cl}$ and $\text{Li}_5\text{B}_7\text{O}_{12}\cdot 5\text{Cl}$ "

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 ($\text{Li}_4\text{B}_7\text{O}_{12}\text{Cl}$) analogues".

Thursday, May 6, 2021 -- Feliciano Giustino, U. Texas -- Electron-phonon interactions

