

## Reading list

## Seminar: High-Temperature Superconductivity, WiSe 23/24

last changed: 25.10.2023 16:32

Date	Talk	Topic	Speaker	PaperID (see Reading List)	Mentor
16.10		Discussion, assignment of topics			
23.10		<b>High-Tc review 1</b>	self-study	<b>Keimer2015</b>	
30.10			self-study	Zhou2021	
06.11			self-study		
13.11			self-study		
20.11		Q & A about Keimer2015	self-study		
27.11	2a	Anderson's RVB	--	Anderson1987, Baskaran1987	
	2b	Long-range AFM	--	Mazurenko2017	
04.12	3a	Emery model, Zhang-Rice singlet	Boheng Niu	Emery1987, Zhang1988	Gleis
	3b	Superexchange pairing	Pietro Borchia	O'Mahony2022, Weber2012	Gleis
11.12	4a	Single-hole doping	Gesa Dünnweber	Koepsell2019, Kane1989, Kurakawa2023	Bermes
	4b	String picture	<del>Can Pak</del> (withdrawn)	Chiu2019, Bohrdt2021	Kebric
18.12	1a	ARPES	--	Kurokawa2023	
	1b	STM	--	Fischer2007	
08.01	5a	Pairing symmetry in cuprates	Simon Pessel	Wollman1993, Scalapino1995, Tsuei2000	Schlömer
	5b	Pairing in cold atom bilayer models	--	Hirthe2022, Bohrdt2022, add nickelate paper...	
15.01	6a	Stripes in cuprates	--	Corboz2011, Huang2017, Ponsioen2019, Wietek2021	
	6b	(Stripes in cold atoms)	--	(Schlömer2022, Schlömer2022a)	
22.01	7a	Hall coefficient	--	Badoux2016, Ando2004	
	7b	Fractionalized Fermi liquids	Benedikt Krupp	Punk2015, Senthil2003	Gleis
29.02	backup	Twisted bilayer graphene I	--	Bistrizer2011, Cao2018	
	backup	Twisted bilayer graphene II	--	Balents2020	
05.02	backup				

If the same paperID is assigned to two speakers, they should each present part of the paper.  
(Decide yourself how to split the material.)

### Mentors

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<b>LSF</b>	<b>Grade</b> (provisional)	<b>Performance</b>
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1.0-1.3	formulates clearly! Nice overview -- focused on essentials, did not dwell on details too much
1.0	very clear and well-presented talk!
1.0	very well prepared, nice slides. Talk was only 15 minutes long