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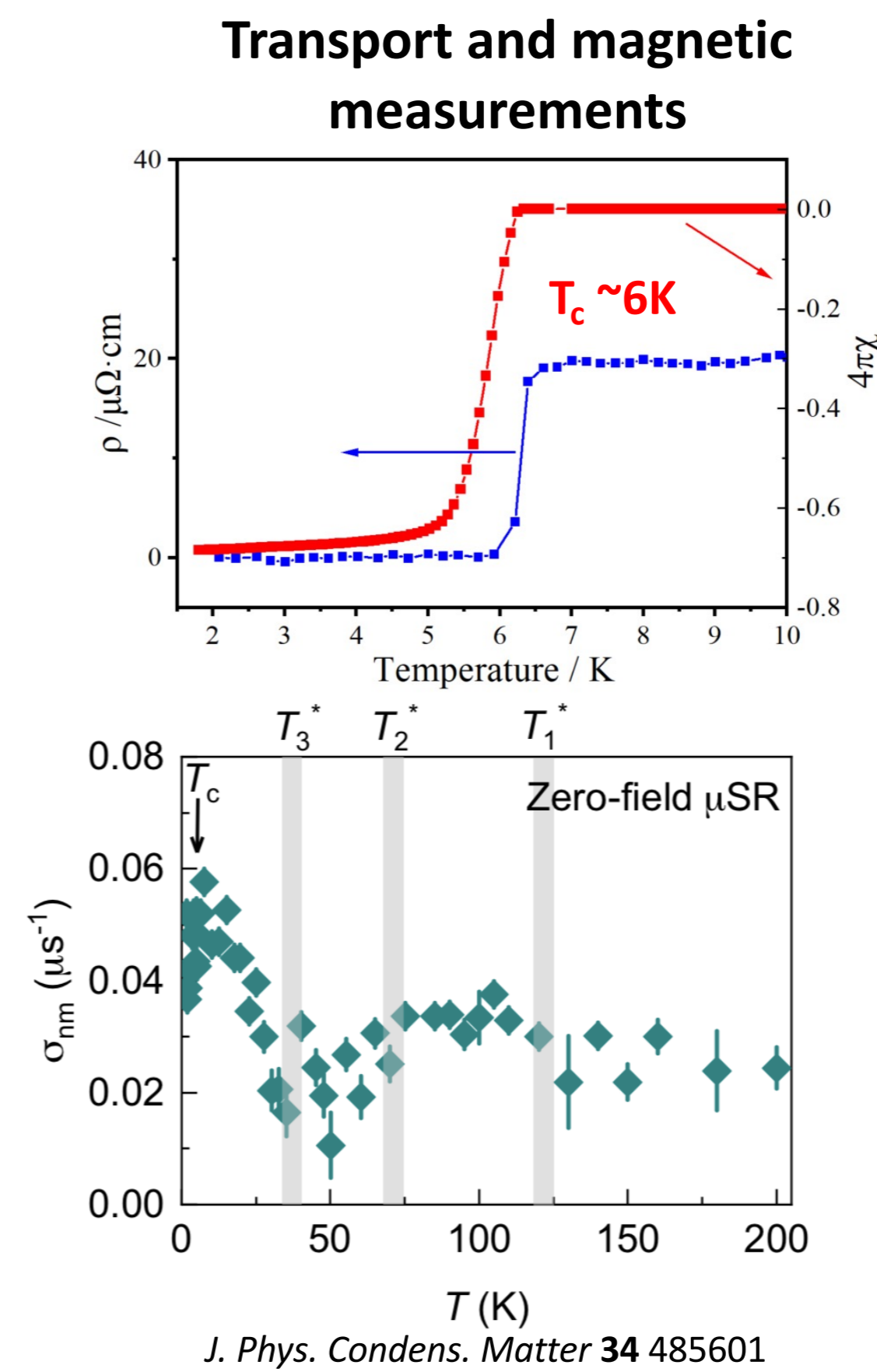
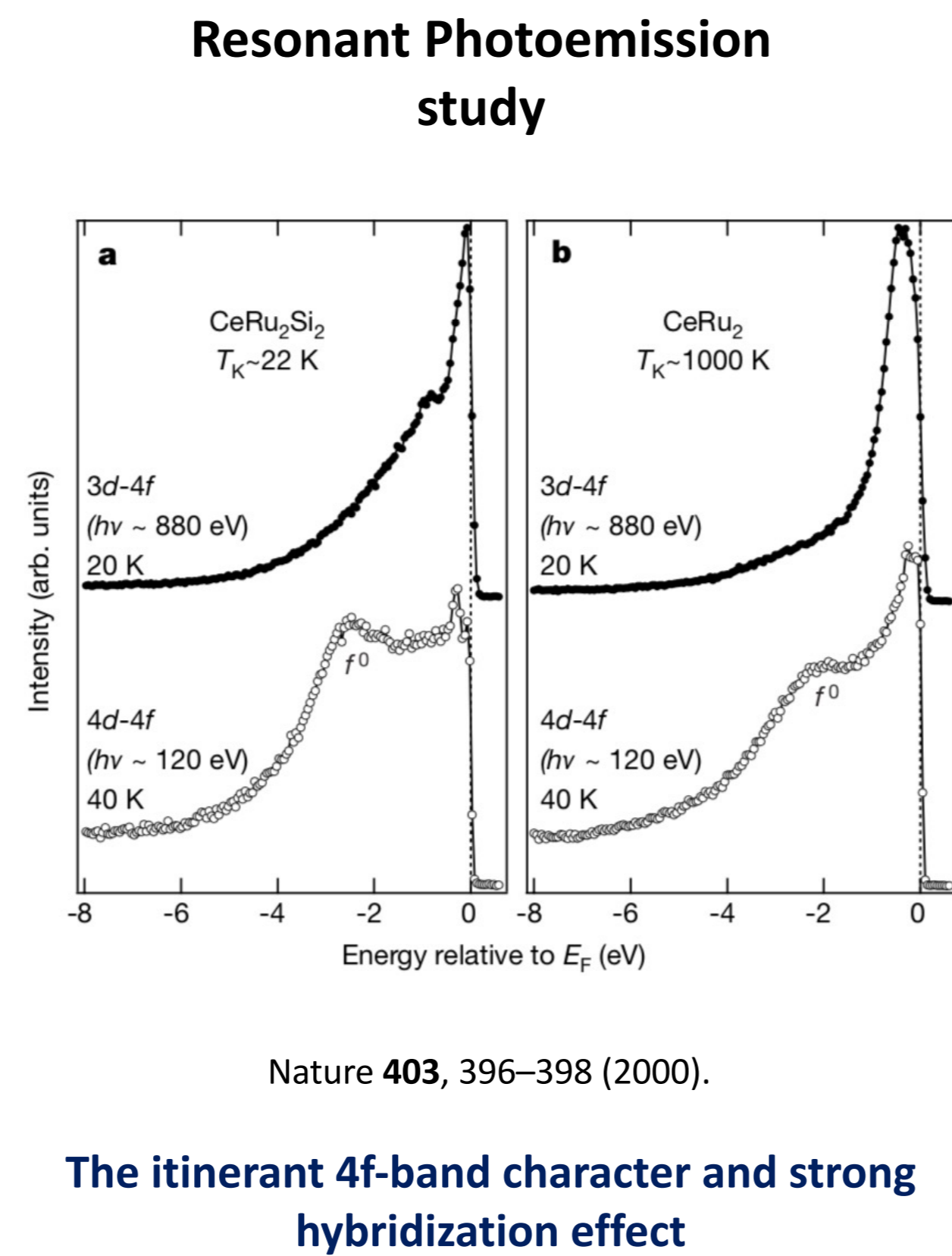
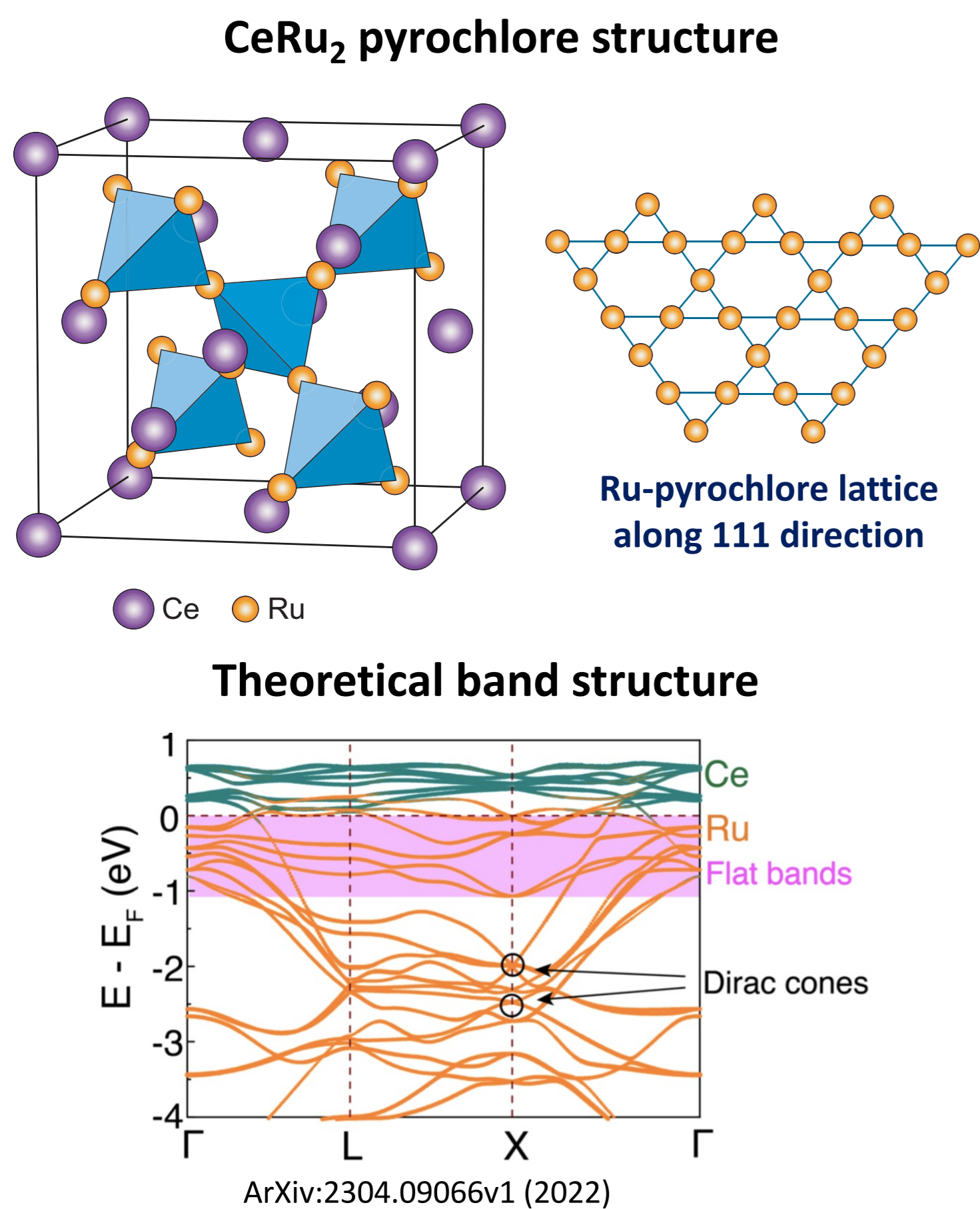
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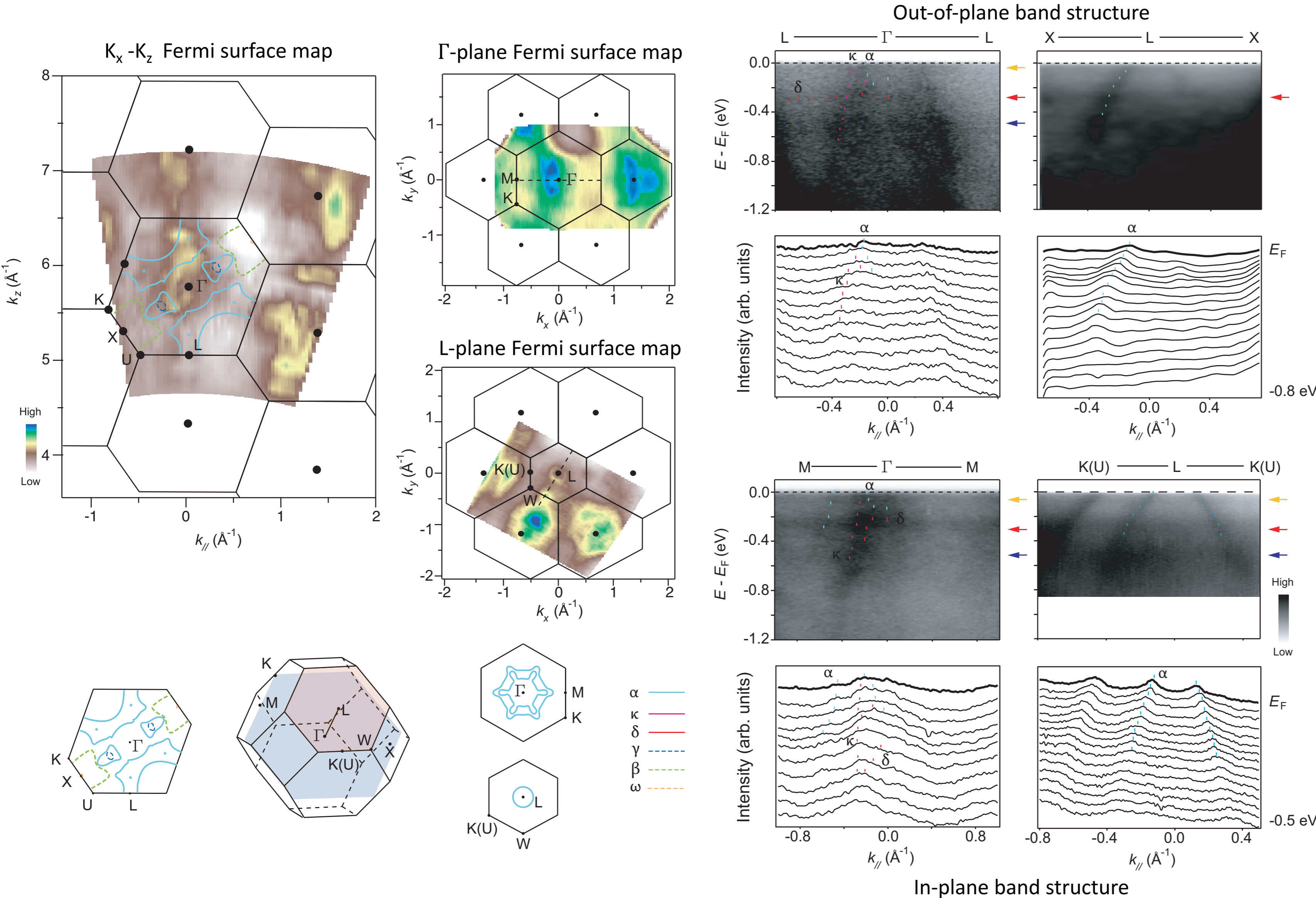
CeRu_2 : A pyrochlore candidate for hosting 3D-flat bands and strongly correlated physics



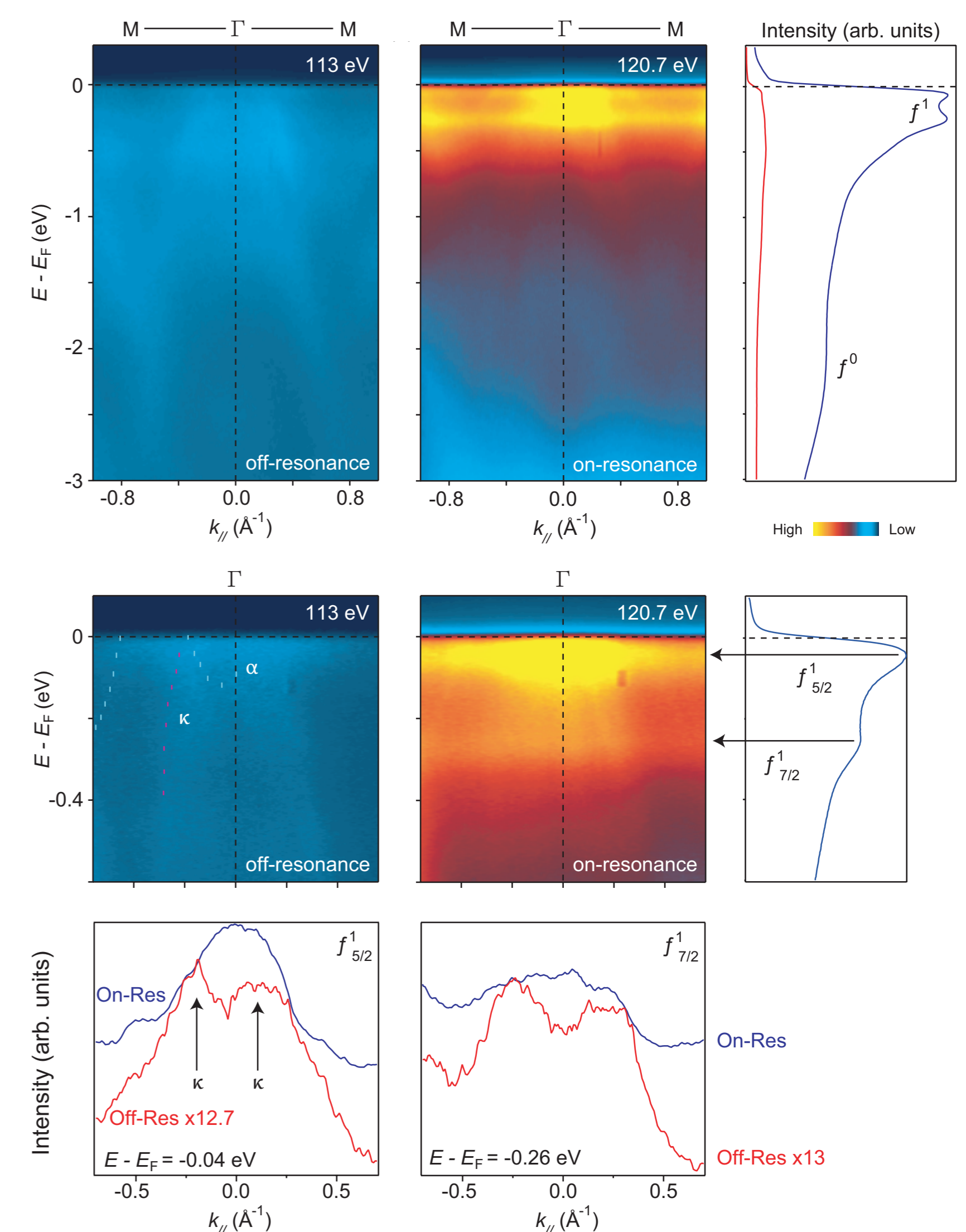
High- T_c among Kagome lattice and novel magnetism

3D-electronic structure and flat bands study

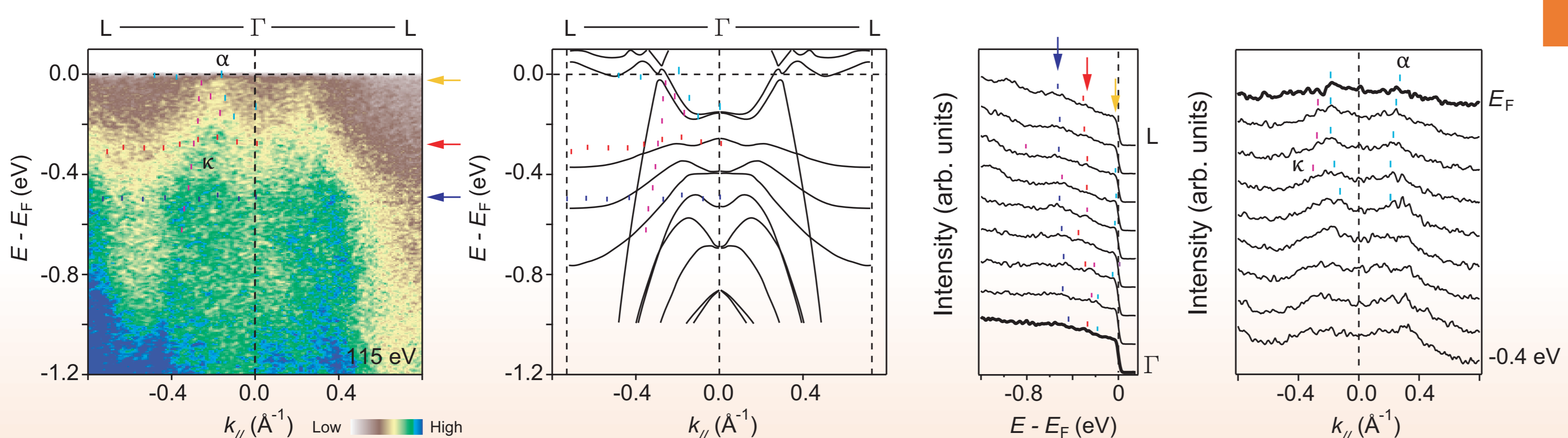
3D electronic structures



Ce resonant-ARPES study



Flat bands from 3D pyrochlore network



Summary & Outlook

- ❖ Electronic structure of CeRu_2 is revealed
- ❖ The presence of Flat bands originates from both Ce f-electrons and three-dimensional Ru-pyrochlore network
- ❖ The pyrochlore flat band near Fermi energy may promote high superconductivity?
- ❖ The combination of two origins flat bands may further enhance electron correlations?