

Mini-workshop on “ T_{cc}^+ and beyond”, Online

Report of Contributions

Contribution ID: 1

Type: **not specified**

Welcome

Tuesday 14 September 2021 13:00 (5 minutes)

Contribution ID: 2

Type: **not specified**

T_{cc}^+ : now + next steps

Tuesday 14 September 2021 13:05 (25 minutes)

Presenter: BELYAEV, Vanya (NRC "Kurchatov Institute" (ITEP) (RU))

Contribution ID: 3

Type: **not specified**

Beyond $T_{cc}^+ : T_{bb}, T_{bc}, \dots$

Tuesday 14 September 2021 13:30 (30 minutes)

Presenter: BLUSK, Steven R. (Syracuse University (US))

Contribution ID: 4

Type: **not specified**

What can we learn from the width of the T_{cc}^+ tetraquark?

Tuesday 14 September 2021 14:00 (20 minutes)

The width of the T_{cc}^+ tetraquark (dimeson) is expected to differ considerably from the widths of its constituent D^{*0} and D^{*+} . Unfortunately, reliable values of the D^{*0} and T_{cc}^+ widths are not yet known and at least theoretical estimates would be welcome. An interesting effect is due to the charge splitting of the $(D^{*+})D^0$ and $(D^{*0})D^+$ thresholds, therefore T_{cc}^+ will not have a pure isospin coupling $T_{cc}^+ = [(D^{*+})D^0 - (D^{*0})D^+]/\sqrt{2}$ and the actual composition may be seen in branching ratios. The width of T_{cc}^+ may depend strongly on threshold effects since its energy is not discrete and its peak extends beyond the lowest threshold, making it partially unstable and therefore broader. I shall try to estimate some of these effects.

Presenter: ROSINA, Mitja

Contribution ID: 5

Type: **not specified**

T_{cc}^+ and its cousins

Tuesday 14 September 2021 14:20 (30 minutes)

Presenter: KARLINER, Marek

Contribution ID: 6

Type: **not specified**

Generality of near-threshold structures and a survey of hidden-charm and double-charm hadronic molecules

Tuesday 14 September 2021 15:40 (30 minutes)

Presenter: GUO, Feng-Kun (Institute of Theoretical Physics, Chinese Academy of Sciences)

Contribution ID: 7

Type: **not specified**

Some reflections on tetraquarks and molecules

Tuesday 14 September 2021 16:50 (30 minutes)

Presenters: POLOSA, Antonio (Sapienza Universita e INFN, Roma I (IT)); POLOSA, Antonio (Universita' La Sapienza, Roma - Italy)

Contribution ID: 8

Type: **not specified**

Heavy tetraquark states from Lattice QCD

Tuesday 14 September 2021 16:10 (20 minutes)

Presenter: MATHUR, Nilmani

Contribution ID: 9

Type: **not specified**

T_{cc} and its heavier cousins: Structure and binding in lattice QCD

Tuesday 14 September 2021 16:30 (20 minutes)

Presenters: FRANCIS, Anthony Sebastian (Universitaet Bern (CH)); LEWIS, Randy (York University)

Contribution ID: 10

Type: **not specified**

Triangle singularities in the production of T_{cc}^+ and a soft pion

Tuesday 14 September 2021 14:50 (30 minutes)

Presenter: BRAATEN, Eric

Contribution ID: **11**

Type: **not specified**

Closing remarks

Tuesday 14 September 2021 17:40 (10 minutes)

Presenter: PAPPAGALLO, Marco (Universita e INFN, Bari (IT))

Contribution ID: 12

Type: **not specified**

Stability of the double-heavy tetraquark: lessons from atomic physics

Tuesday 14 September 2021 17:20 (20 minutes)

Presenters: RICHARD, Jean-Marc Rene (Centre National de la Recherche Scientifique (FR)); RICHARD, jean-marc (IPNL)

Contribution ID: 13

Type: **not specified**

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