

### La nostra agenda

- - CIF Intro: F. De Mori 10'
- - Measurement of J/psi  $\rightarrow$  omega pi0: Alessio M. 15'
- - Updates from Zc studies: Marco S. 10'
- - Relative Phase measurements and luminosity with psi(2S) scan: Giulio 20'
- - Precise measurements of BR(J/psi  $\rightarrow$  KK) from psi(2S)  $\rightarrow$  pi pi J/psi 20′ FDM
- - LFVU with psi(2S)  $\rightarrow$  tau tau 15' Isa

### LE NOSTRE ANALISI

#### Relative Phase of Charmonia:

- J/ψ:
- ppbar (Marco D.), K+K- (Francesca D.M.)
- ψ(2S): e<sup>+</sup>e<sup>-</sup>  $\rightarrow$  ππJ/ψ (Giulio)
- Started collaboration with IHEP and USTC groups (China) to expand analyses to other final states ( $\Sigma^0\Sigma^0$ ,  $\Sigma^+\Sigma^-$ ,  $\Lambda\Lambda$ )

#### Chamonium spectroscopy and decay

- h<sub>c</sub> mass and width (Marco S.) advanced review
- LFUV in  $\psi(2S) \rightarrow \tau\tau$  (Isa): finalized selection for  $\pi/\mu$  separation
- ψ(2S)  $\rightarrow$  ππJ/ψ, J/ψ  $\rightarrow$  KK (Francesca)
- $J/\psi \rightarrow \omega \pi 0$  (Alessio M.): measurement of possible G-parity contribution (phase measurement under study)

#### Exotic:

- Search for hidden-strangeness pentaquark (Giulio): use the 2020 data to improve sensitivity
- Search for  $Z_c(4430)$  tetraquark in  $e^+e^- \rightarrow \pi\pi\psi(25)$  invariant mass (Marco S.)-preliminary feasibility study completed

# What is missing?

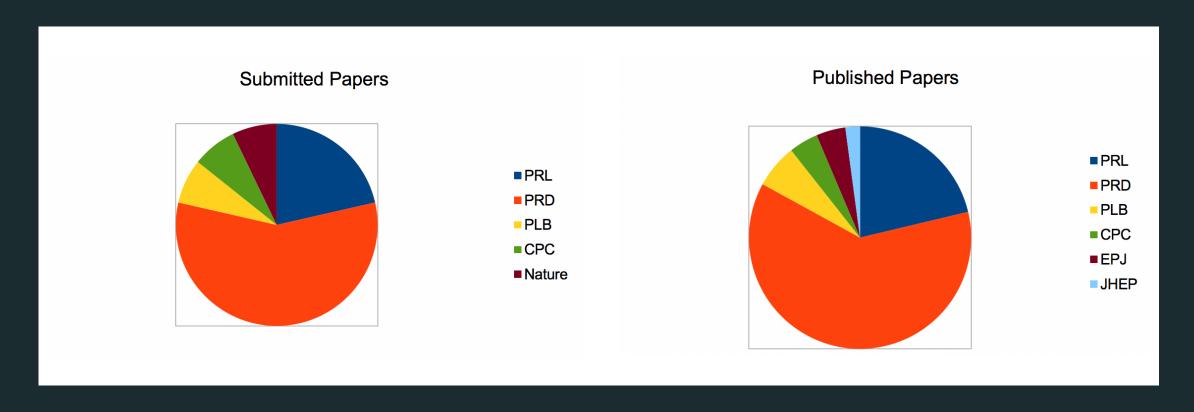
• Feasibility study of Lambda(1520) decay in Lambda e+e-(Alessio G.+Marco D.)

In progress

- Since last BES3-it
- CIF takes place quite regularly once a month
- An indico page has been created <a href="https://agenda.infn.it/event/25446/">https://agenda.infn.it/event/25446/</a>
- Presentations and minutes of CIF meetings can be found there.
- Second meeting of phase analyses group (the first official one) in BES3

On March 1st: two talks and fruitful discussions.

### Publications



In 2020 published 39 papers plus another 9 in early 2021. Submitted other 14

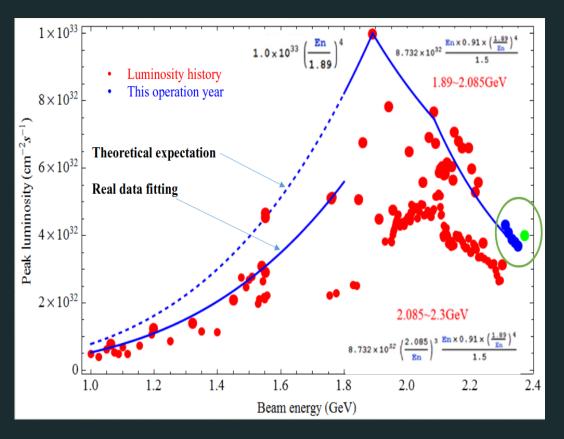
## Data taking 2020-21

BEPCII upgrade completed

reached 4.946 GeV, new record 9/02/2021 154/pb

Data taking on-going since Nov 15

- New energies Scan (XYZ and charmed hadrons)
  - 500 pb<sup>-1</sup> @ E<sub>cm</sub> = 4.74, 4.78, 4.84 GeV
  - 200 pb<sup>-1</sup> @ E<sub>cm</sub> = 4.9 GeV
- 2.55B psi(2S) + 10% continuum data
- psi(3770) for the remaining of 2021 + 2022



Remote shifts started on February--> In this difficult situation, it is a good chance to help Chinese colleagues in data taking duties

...and now Let's start!!!