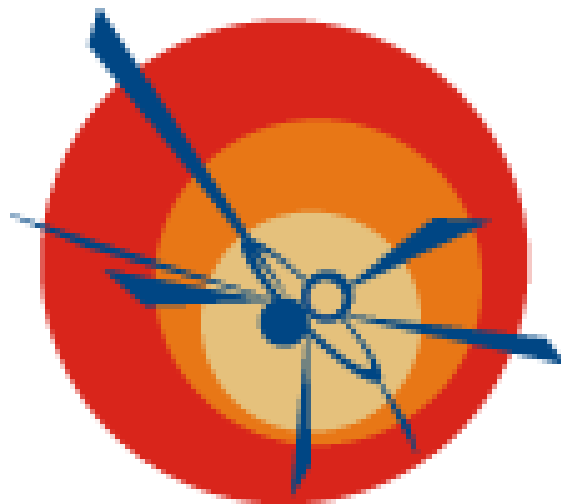


Workshop da Rede Nacional de Física de Altas Energias (RENAFAE) 2022

segunda-feira, 25 de abril de 2022 - quinta-feira, 28 de abril de 2022



Livro de Resumos

Autor Correspondente: vitor@ifsc.usp.br

In this talk, I am going to review the participation of some brazilians groups in the Cherenkov Telescope Array Observatory (CTA). I am going to discuss the participation in instrumentation and proposal of data analysis. I am going to show the participation of the brazilian industry in building the telescopes and producing innovation. The interface between astrophysics and particle physics, always present in astroparticles physics analysis, will be explored with focus on high energy phenomena.

Sessão 2 / 6

The ALP search with NeuralRinger - ATLAS experiment

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Abstract of the ALP search - ATLAS Experiment

Sessão 2 / 7

Quark-mass and strong-coupling from QCD sum rules: the role of the experimental data

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I will discuss the use of the so-called relativistic sum rules for the precise extraction of the charm-quark mass and the strong coupling, α_s , from experimental data for $\sigma(e^+e^- \rightarrow \text{hadrons})$. I will focus on the role of the data from e^+e^- colliders and in particular on the combination of data sets and the required algorithm used in state-of-the-art analyses, such as the above mentioned sum rules and the dispersive approach to $g - 2$ of the muon.

Sessão 1 / 8

Experimento CMS do CERN/LHC

Autor Colaboração CMS-Brasil¹

¹ *CBPF, UEA, UERJ, UFABC, UFMS, UFRGS, UNESP, UNICAMP, UFMS*