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Stellingen

Behorende bij het proefschrift

Particle-identification capability of the Straw Tube Tracker and feasibility studies for open-charm production with PANDA

Alexandros Apostolou

1. Particle-identification that is solely based on energy-loss and momentum information suffers from an unsolved problem: it is not possible to disentangle particle types when the velocities are relativistic.
2. A precise measurement of the natural widths of open-charm hadrons is the key element for the determination of their nature.
3. In the scientific community, it is of great importance to present and justify every single step of an analysis, if one wants to arrive at a valid conclusion.
4. For large scales simulations, the presence of a powerful computing machine is a necessary tool in the hands of a Ph.D. student.
5. The policy of the university is to avoid discrimination between students and staff members. However, the bursary agreement made with “bursary“ Ph.D. students is inferior compared to the usual employment contract offered to the “regular” Ph.D. students, in terms of salary and social benefits.
6. In a multicultural group of people, the ground is more fertile for personal relations to be grown.
7. The aim of an educational system should not only be to create scientists but also persons with high moral values.
8. The fate of a country facing huge political or social problems, must be decided by the people of that country. Any external interventions (military, political or financial) by other countries have always led to an extreme worsening of the situation. The most recent example is the situation in Syria.