

University of Groningen

Performance studies for the trigger-less data acquisition of the PANDA experiment (phase-1)

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Propositions belonging to the PhD Thesis

Performance studies for the trigger-less data acquisition of the $\overline{\text{P}}\text{ANDA}$ experiment (phase-1)

1. With further increases in computing power, future scientific experiments will require only a theoretical model as input to perform full in-situ data analysis and interpretation.
2. Hadron annihilations provide the best opportunity to study such phenomena as hadron mass generation and symmetry breaking.
3. Despite the significant delay, PANDA is still relevant and the most promising experiment in the field of hadronic physics.
4. Accurate simulation studies save a lot of time and money in today's scientific world.
5. Artificial intelligence will not solve all problems because it is also biased, just like human intelligence.
6. The scholarship experiment reduces the chances of the participants to stay in the academic environment due to the inequality of the experience gained. Beneficial mainly for economic rather than scientific reasons, it should be stopped.
7. A scientific community driven by the pressure of publications will not succeed in scientific breakthroughs.
8. The Covid-19 crisis mostly had a negative impact on society, but there are also positive effects that can be seen like the introduction of flexible working in new areas of activity.
9. The United Nations must be reformed to not end up as the League of Nations. Proclaiming equality, international peace and security as its goals, the UN has more "equal" members from the start.
10. Wars never change. To stop them, people must change.
11. Continuous improvement is not always accepted by society.

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