

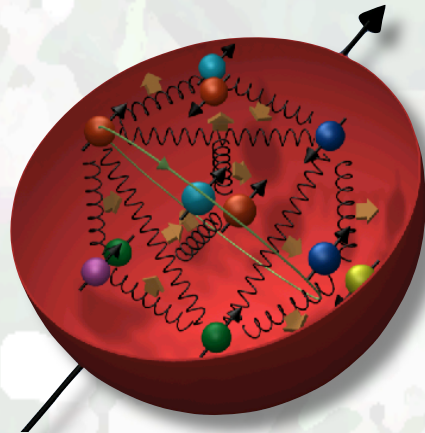


Status and Perspective of the high-energy polarized proton-proton program at RHIC

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Outline

- Future polarized p-p collider performance

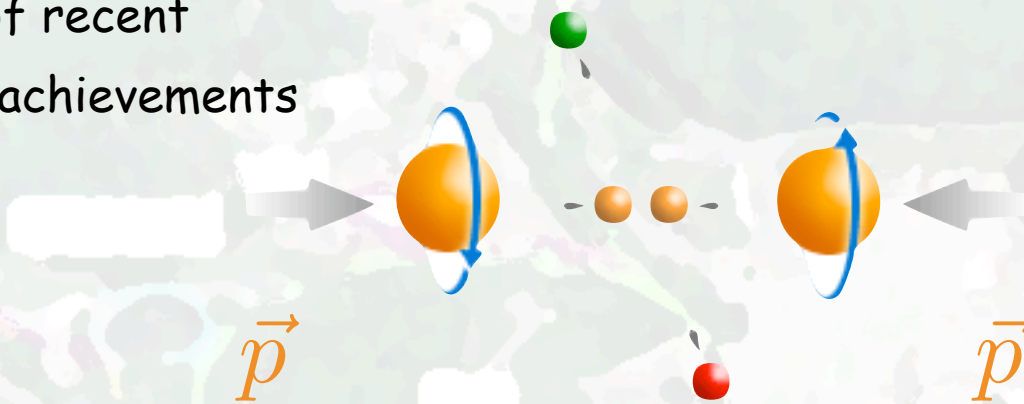
- Future polarized p-p physics program

- Gluon polarization
- Anti-Quark Polarization
- Transverse spin dynamics

- Highlights of recent results and achievements

- Theoretical foundation

- Summary and Outlook





Theoretical foundation

□ Outline

- Gluon polarization program - Theoretical basis
- Parity violating spin asymmetries A_L in W production - Theoretical basis
- Transverse spin dynamics - Theoretical basis



Highlights of recent results and achievements

□ Outline

- Collider performance (Luminosity / Polarization)
- STAR / PHENIX
- Cross-section results
- A_{LL} results and open questions
- A_N results and open questions
- Incl. comment about other world-wide results



Future polarized p-p collider performance

□ Outline

- 200GeV luminosity and polarization evolution
- 500GeV luminosity and polarization evolution



Future polarized p-p physics program

□ Overview

○ Gluon polarization

- Impact of higher precision inclusive measurements
- Correlation measurements
- Extension of kinematic region
- Photon related measurements

○ W program

- Requirements
- PHENIX incl. schedule for trigger upgrade
- STAR incl. schedule for FGT upgrade

○ Transverse spin dynamics

- Collins/Sivers measurements
- Photon-Jet measurements
- Future Drell-Yan experiment



Summary and Outlook

□ Outline

- Graph on collider evolution together with detector upgrades and physics results
- Statement on world-wide competition and impact in community