

# The Relativistic Heavy Ion Collider Run-24 Polarized Protons Operation at 100 GeV

Run-24 pp

|                   |  |            |
|-------------------|--|------------|
| $E$               | GeV                                    | 100        |
| $L_{\text{peak}}$ | $10^{30} \text{cm}^{-2} \text{s}^{-1}$ | <b>115</b> |
| $L_{\text{avg}}$  | $\text{pb}^{-1}/\text{week}$           | <b>25</b>  |
| $P_{\text{avg}}$  | %                                      | <b>57</b>  |

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**RHIC**

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[Carbon CNI Analysis](#)] [[Jet Analysis](#)] [[Accelerator Performance Plots](#)]

[[Au Elog](#)]

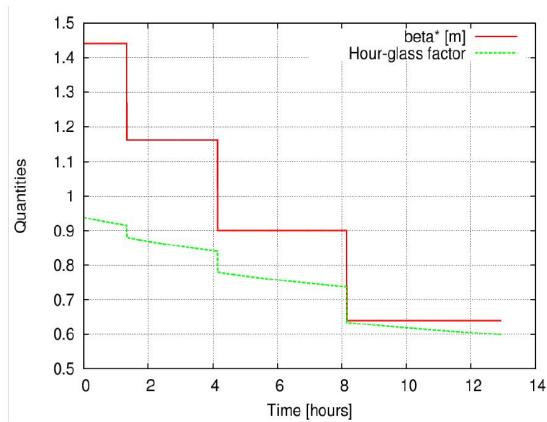
**AGS**

[[PP Elog](#)] [[Shift Leaders Schedule](#)] [[Run Plan](#)] [[Recipes](#)]

### Main machine parameters (p+p)

|  |                          |
|--|--------------------------|
| No of bunches                              | STAR 100                 |
| Protons/bunch                              | $2.5 \times 10^{11}$     |
| <a href="#">Blue Ramp working point</a>    | Qx, Qy: (28.685, 29.673) |
| <a href="#">Yellow Ramp working point</a>  | Qx, Qy: (28.685, 29.673) |
| <a href="#">Blue Store working point</a>   | Qx, Qy: (28.695, 29.685) |
| <a href="#">Yellow Store working point</a> | Qx, Qy: (28.695, 29.685) |
| # of collisions                            | 2                        |
| beta* for collisions @IP6                  | 0.85 m                   |
| beta* for collisions @IP8                  | 0.50 m                   |
| Crossing angle @IP6                        | 0 mrad                   |
| Crossing angle @IP8                        | -2 to 0 mrad             |

### Luminosity Leveling



Courtesy Yun Luo

### RHIC Status

**Start of RHIC cooldown to 4K is no earlier than March 3, 2024**

|                                  |                              |                  |                       |
|----------------------------------|------------------------------|------------------|-----------------------|
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