

# 2016 Proposals & Grades

| <u>Exp. No.</u> | <u>Exp. Title</u>   | <u>Spokesperson</u> | <u>Status</u> | <u>Grade</u> |
|-----------------|---|---------------------|---------------|--------------|
| 16-15 L         | <a href="#">Injection of Au78 and Au79 into High Dispersion (LEReC) Lattice</a> | V. Schoefer         | Proposed      | 0A           |
| 16-14           | <a href="#">Spin Flipper AC Dipole Closure</a>                                  | P. Oddo             | Proposed      | 1A           |
| 16-13           | <a href="#">Align Hadron and Electron Bunches</a>                               | I. Pinayev          | Proposed      | 1A           |
| 16-12           | <a href="#">Commissioning of IR Diagnostics</a>                                 | I. Pinayev          | Proposed      | 1A           |
| 16-11           | <a href="#">CeC PoP Fault Studies</a>   | I. Pinayev          | Proposed      | 1A           |
| 16-10           | <a href="#">Reach Full Power Electron Beam</a>                                  | I. Pinayev          | Proposed      | 1A           |
| 16-09           | <a href="#">Propagate Electron Beam to High Power Beam Dump</a>                 | I. Pinayev          | Proposed      | 1A           |
| 16-08           | <a href="#">Ramp development for CeC PoP set-up</a>                             | I. Pinayev          | Proposed      | 1A           |
| 16-07           | <a href="#">Effect of CeC Magnets on RHIC Beam</a>                              | I. Pinayev          | Proposed      | 1A           |
| 16-06           | <a href="#">Luminosity maximization at injection energy</a>                     | C. Montag           | Proposed      | 0A           |
| 16-05 L         | <a href="#">Detection of small gold beam losses in RHIC arcs</a>                | C. Montag           | Proposed      | 0A           |
| 16-04           | <a href="#">LEReC high dispersion lattice test</a>                              | C. Montag           | Proposed      | 0A           |
| 16-03           | <a href="#">RHIC momentum acceptance measurement</a>                            | C. Montag           | Proposed      | 0A           |
| 16-02           | <a href="#">Beam-beam study for eRHIC using CEC POP accelerator</a>             | Yue Hao             | Proposed      | 1C           |
| 16-01           | <a href="#">Accelerating protons through the b3 minimum</a>                     | C. Montag           | Proposed      | 2C           |

# Beam Time Request from 2016 New Proposals

New Proposals:

Grades Time Request:

| Grades | Time Request: |   |            |             |          |
|--------|---------------|---|------------|-------------|----------|
| 0A     | 3h            | Injection of Au78 and Au79 into High Dispersion (LEReC) Lattice |            | V. Schoefer | Proposed |
| 1A     | 4h            | Spin Flipper AC Dipole Closure                                  |            | P. Oddo     | Proposed |
| 1A     | 2*4h          | Align Hadron and Electron Bunches                               | I. Pinayev |             | Proposed |
| 1A     | 2*4h          | Commissioning of IR Diagnostics                                 | I. Pinayev |             | Proposed |
| 1A     | 4h            | CeC PoP Fault Studies   | I. Pinayev |             | Proposed |
| 1A     | 2*6h          | Reach Full Power Electron Beam                                  | I. Pinayev |             | Proposed |
| 1A     | 2*6h          | Propagate Electron Beam to High Power Beam Dump                 | I. Pinayev |             | Proposed |
| 1A     | 2*4h          | Ramp development for CeC PoP set-up                             | I. Pinayev |             | Proposed |
| 1A     | 2h            | Effect of CeC Magnets on RHIC Beam                              | I. Pinayev |             | Proposed |
| 0A     | 16h           | Luminosity maximization at injection energy                     | C. Montag  |             | Proposed |
| 0A     | 4h            | Detection of small gold beam losses in RHIC arcs                | C. Montag  |             | Proposed |
| 0A     | 6-8h          | LEReC high dispersion lattice test                              | C. Montag  |             | Proposed |
| 0A     | 4h            | RHIC momentum acceptance measurement                            | C. Montag  |             | Proposed |
| 1C     | 15h           | Beam-beam study for eRHIC using CEC POP accelerator             | Yue Hao    |             | Proposed |
| 2C     | 16h           | Accelerating protons through the b3 minimum                     | C. Montag  |             | Propose  |

|                       |          |
|-----------------------|----------|
| Total requested time: | 122-124h |
| 0A experiments:       | 33-35h   |
| 1A experiments:       | 58h      |

NOTE: beam time also needed from previous proposed experiments, will check how much beam time there in apex weekly meeting.

# Status of experiments from 2015

|       |   |                            |          |                            |          |
|-------|---|----------------------------|----------|----------------------------|----------|
| 15-16 | Collimator pin diode efficiency estimates                                 | P. Thieberger              | Proposed |                            |          |
| 15-15 | Spin Flipper  | P. Oddo, V. Ptitsyn        | Proposed |                            |          |
| 15-14 | Aperture scan with DX magnets moved                                       | C. Liu, Y. Luo, A. Marusic | Proposed |                            |          |
| 15-13 | p-Au acceleration with unequal frequencies of two beams                   | C. Liu                     | Proposed |                            |          |
| 15-12 | Measurement of transverse beam halo diffusion rates with collimator scans |                            |          | Guillaume Robert-Demolaize | Proposed |
| 15-11 | P-Au 9MHz Rebucket Gymnastic Test   | KSS                        | Proposed |                            |          |
| 15-10 | Aperture test for low energy p-Au   | C. Montag                  | Proposed |                            |          |
| 15-09 | 56MHz HOM Study   | K. Smith                   | Proposed |                            |          |
| 15-08 | Optimization of figure of merit in presence of electron clouds            | Minty                      | Proposed |                            |          |
| 15-07 | Stability with electron lens  | W. Fischer                 | Proposed | 1A                         |          |
| 15-06 | Circumference lengthening   | V. Ptitsyn                 | Proposed | 0A                         |          |
| 15-05 | High dispersion LEReC lattice   | C. Montag                  | Proposed | 0A                         |          |
| 15-04 | Local coupling measurement along the ring                                 | Y. Luo                     | Proposed |                            | 1A       |
| 15-02 | E-lens Related Beam Study   | Xiaofeng Gu                | Proposed | 1A                         |          |
| 15-01 | Beam tests for p-A run  | C. Liu                     | Proposed | 0A                         |          |
| 11-28 | 5 GeV Au-Au test  | Christoph Montag           | Proposed |                            |          |

**Still open:** 15-15, 15-12, 15-08, 15-07, 15-06, 15-04, 15-02

**Withdrawn:** 15-05, 11-28

**All others :** completed.

# All Active Proposals

|       |   |             |          |    |
|-------|---|-------------|----------|----|
| 16-15 | Injection of Au78 and Au79 into High Dispersion (LEReC) Lattice | V. Schoefer | Proposed | 0A |
| 16-14 | Spin Flipper AC Dipole Closure                                  | P. Oddo     | Proposed | 1A |
| 16-13 | Align Hadron and Electron Bunches                               | I. Pinayev  | Proposed | 1A |
| 16-12 | Commissioning of IR Diagnostics                                 | I. Pinayev  | Proposed | 1A |
| 16-11 | CeC PoP Fault Studies   | I. Pinayev  | Proposed | 1A |
| 16-10 | Reach Full Power Electron Beam                                  | I. Pinayev  | Proposed | 1A |
| 16-09 | Propagate Electron Beam to High Power Beam Dump                 | I. Pinayev  | Proposed | 1A |
| 16-08 | Ramp development for CeC PoP set-up                             | I. Pinayev  | Proposed | 1A |
| 16-07 | Effect of CeC Magnets on RHIC Beam                              | I. Pinayev  | Proposed | 1A |
| 16-06 | Luminosity maximization at injection energy                     | C. Montag   | Proposed | 0A |
| 16-05 | Detection of small gold beam losses in RHIC arcs                | C. Montag   | Proposed | 0A |
| 16-04 | LEReC high dispersion lattice test                              | C. Montag   | Proposed | 0A |
| 16-03 | RHIC momentum acceptance measurement                            | C. Montag   | Proposed | 0A |
| 16-02 | Beam-beam study for eRHIC using CEC POP accelerator             | Yue Hao     | Proposed | 1C |
| 16-01 | Accelerating protons through the b3 minimum                     | C. Montag   | Proposed | 2C |

and

|       |   |                            |          |    |
|-------|---|----------------------------|----------|----|
| 15-15 | Spin Flipper  | P. Oddo, V. Ptitsyn        | Proposed |    |
| 15-12 | Measurement of transverse beam halo diffusion rates with collimator scans | Guillaume Robert-Demolaize | Proposed |    |
| 15-08 | Optimization of figure of merit in presence of electron clouds            | Minty                      | Proposed |    |
| 15-07 | Stability with electron lens  | W. Fischer                 | Proposed | 1A |
| 15-06 | Circumference lengthening   | V. Ptitsyn                 | Proposed | 0A |
| 15-04 | Local coupling measurement along the ring                                 | Y. Luo                     | Proposed | 1A |
| 15-02 | E-lens Related Beam Study   | Xiaofeng Gu                | Proposed | 1A |
| 13-02 | Transverse impedance of RHIC  | M. Blaskiewicz             | Running  |    |
| 12-22 | Test of Head-Tail Chrom. measurement using BBQ                            | Vahid Ranjbar              | Running  |    |

**Totally 24 proposals:**

**15 are newly proposed**

**7 from 2015 proposals**

**1 from 2012 and 1 from 2013**