

ePIC@BNL elections

PS, JD, TU, ZX - Feb 9, 2023

ePIC elections

- **Ballot opened last week**
 - Decisions by each CC member due by Feb 13 (next Monday)
- **Three elections:**
 - Spokesperson (vote for one) - each has a named deputy who is not on the ballot
 - *John Lajoie (Silvia Dalla Torre, deputy)*
 - *Ken Barish (Barbara Jacak, deputy)*
 - Collaboration council chair - a one-year position (ranked choice)
 - *Douglas Higinbotham*
 - *Ernst Sichtermann*
 - *Peter Steinberg*
 - *Bernd Surrow*
 - *Thomas Ullrich*
 - Collaboration council vice chair - a two-year position (ranked choice)
 - *Janusz Chwastowski*
 - *Douglas Higinbotham*
 - *Rosi Reed*
 - *Bernd Surrow*
- **If the same person wins both council chair and vice chair, they can choose which one they want and they will be removed from the other list**
- **We need to have our internal BNL elections to decide how our 3 CC members will vote**
 - The votes will be based strictly on this election, so your vote matters!

Election proposals: Spokesperson

- **For SP election**
 - Simple vote, since second place is trivial
 - If majority fraction (selected/total) is $>66.6\%$ then winner gets 3 votes
 - *Abstentions (included on our internal ballot, not by ePIC) are removed from numerator and denominator*
 - *We have decided not to have a quorum requirement*
 - Otherwise, winner gets 2 votes, and loser gets 1
 - Trivial cases
 - *90-10: 3 votes to winner*
 - *80-20: 3 votes to winner*
 - *66.6-33.3: 2 votes to winner, 1 to loser (obvious 2:1 split)*
 - *51-49: 2 votes to winner, 1 to loser (winning has to be worth something)*

Election proposals: CC chair and vice chair

- **Two separate votes**
 - If one person wins both elections, they can choose which position they want, and they get removed from RCV for other election
- **We need a way to decide what the group feels should be 1st place, 2nd place, etc.**
- **We propose a simple scheme:**
 - Every voter (n voters) creates a ranked list of all N candidates
 - Each candidate ($j=1-N$) on each list ($i=1-n$) gets a weight, p_{ij} :
 - N points for 1st place
 - 1 point for N th place
 - The sum over lists for each candidate $p_j = \text{Sum}_i(p_{ij})$ generates a weight that reflects the overall preference for that candidate
 - The ordered list of p_j is our ranked vote ballot
 - $\max(p_j), \max_{-1}(p_j) \dots \min(p_j)$
 - Simplest replication procedure is to have each BNL CC member enter that list
- **If $\max(p_j) < (2/3)nN$ then we invert 1st and 2nd place on one of the 3 submitted ranked-choice ballots (chosen at random)**
 - This breaks a complete “winner take all scenario”