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Nucleon emission with polarized and unpolarized photons: A proposal for ALBA

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Contents  $(\gamma, \mathbf{N}), \ (\vec{\gamma}, \mathbf{N})$ The model **OBC+MEC+SRC** simultaneously

- ( $\gamma$ ,NN), ( $\vec{\gamma}$ ,NN)
- Conclusions









## Conclusions

- one-nucleon emission  $(\gamma, p)$  and  $(\vec{\gamma}, p)$
- SRC: small corrections, within theoretical uncertainties
- $(\gamma, p)$ : sensitivity to SRC, but SRC effects are smaller than MEC contributions
- $(\vec{\gamma}, \mathbf{p})$ : sensitive to MEC but very scarce experiments
- large contribution of the uncorrelated OB responses
- $\longrightarrow$  two-proton emission to study SRC

## Conclusions

- two-nucleon emission
- OB uncorrelated terms do not contribute
- MEC compete with SRC but if
- two-proton emission
- only  $\Delta$  current only
- good place for SRC













## Conclusions

- $(\gamma, \mathrm{pp})$
- $\Delta$  current effects smaller than SRC contributions for a variety of kinematics
- (7,pp)
- strong sensitivity to both  $\Delta$  current and SRC

