REFERENCES

1. S. Y. Lee, *Accelerator Physics* (2011), 3rd ed., https://doi.org/10.1142/8335

2. T. Risselada, https://cds.cern.ch/record/261069

3. R. Ainsworth, S. Chaurize, I. Kourbanis, and E. Stern, in *Proceedings of the 8th International Particle Accelerator Conference* (Copenhagen, Denmark, 2017).

4. H. Stockhorsts et al., Beam Cooling at COSY and HESR (2016).

5. Y. V. Senichev and A. N. Chechenin, J. Exp. Theor. Phys. **105**, 988 (2007); https://doi.org/10.1134/S1063776107110118

6. E. M. Syresin, A. V. Butenko, P. R. Zenkevich, O. S. Kozlov, S. D. Kolokolchikov, S. A. Kostromin, I. N. Meshkov, N. V. Mityanina, Y. V. Senichev, A. O. Sidorin, and G. V. Trubnikov, Phys. Part. Nucl. **52**, 997 (2021); https://doi.org/10.1134/S1063779621050051

7. J. Wei and S. Y. Lee, https://api.semanticscholar.org/CorpusID:115801271

8. M. Vadai, Beam Loss Reduction by Barrier Buckets in the CERN Accelerator Complex (2021), presented 10 Mar 2021, https://cds.cern.ch/record/2766175

9. P. F. Derwent, Tech. Rep., Beams doc: 8690 (2020).

10. BLonD (2017), URL https://blond.web.cern.ch/

11. COSY Infinity (2013), URL https://www.bmtdynamics.org/index\_cosy.htm