



European Organization for Nuclear Research
Organisation européenne pour la recherche nucléaire

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Letter of Recommendation for Dot Belin PIO

To whom it may concern,

I am pleased to recommend Dot Belin Pio whom I supervised during a short-term internship in the Beams department at CERN from January to February 2026. I am a staff scientist in the CERN beams department, specializing in beam dynamics, and an adjunct professor at the University of Saskatchewan, Canada. I co-convene Future electron-positron Circular Collider (FCC-ee) working groups on optics tuning and on energy calibration and polarization. During her internship this time, she worked on the project simulations of turn-by-turn optics measurements using an AC dipole in the FCC-ee.

Despite the short duration of the internship, Dot distinguished herself through her exceptional ability to rapidly familiarize herself with a highly specialized topic. She rapidly acquired a solid understanding of beam dynamics, linear beam optics, and optics measurement techniques in lepton storage rings. Building on this foundation, she independently carried out thorough simulation studies for two different lattice designs of the FCC-ee, demonstrating both technical competence and strong scientific rigor.

Her work was conducted with a high level of autonomy and attention to detail, and her results were clearly documented and reliable. In addition, she communicated her progress proactively and engaged effectively with colleagues in a collaborative research environment. She presented her findings in a working group meeting with clarity and confidence, and produced a report of outstanding quality (DOI: xxx), which was particularly well-structured and exceptionally well written.

It is also worth noting that the FCC-ee project has been identified by the European Strategy for Particle Physics as the highest-priority future collider at CERN following the completion of the High Luminosity Large Hadron Collider (HL-LHC), highlighting the relevance and importance of the work to which she contributed to.

Overall, Dot is an exceptionally bright, motivated, and reliable young scientist with clear potential to excel in demanding academic or professional environments. I recommend her without reservation and am confident she will bring the same rigor, initiative, and high standards to any future endeavor.

Sincerely,

A handwritten signature in blue ink that reads "Jacqueline Keintzel".

Dr. Jacqueline Keintzel,
Staff Accelerator Scientist,
European Organization for Nuclear Research (CERN)