



Contribution ID: 431 Contribution code: TUPR63

Type: **Poster Presentation**

Pumping characteristics of Zr and TiZrV getter films

Tuesday, 21 May 2024 16:00 (2 hours)

NEG coatings is widely used in many accelerators due to its provide sufficiently low pressure in the beam pipe during machine operation. The single zirconium wire target is easy to apply for small diameter pipe coating compare to TiZrV twist wire target. In this study, Single metal Zr thin film and TiZrV were deposits on stainless steel pipe with inner diameter of 20mm and a length of 500mm using pulsed DC and DC mode. The Test Particle Monte-Carlo (TPMC) models were used to check Zr and TiZrV thin film pumping properties for interpreting the results of the measurements in the experimental setup.

Footnotes

Funding Agency

Paper preparation format

Region represented

Asia

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Session Classification: Tuesday Poster Session

Track Classification: MC7: Accelerator Technology and Sustainability: MC7.T14 Vacuum Technology