Contribution ID: **590** Type: **Poster Presentation of 1h45m**

HEV Motor Comparison of IPMSM with Sintered Rare-Earth Mangnet and Bonded Dy Free Injection Magnet in the Same Size

Thursday, 31 August 2017 13:45 (1h 45m)

This paper studied on the comparison of traction motor for same size with sintered rare-earth magnet and bonded Dy free magnet. We designed PMASynRM with bonded Dy free injection magnet by changing only rotor and experimented to verify performance at the same size IPMSM with sintered rare-earth magnet. We simulated the magnetic orientation of the injection Dy free magnet to make the performance prediction precise. And we studied about overcoming the problem to improve the performance.

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Session Classification: Thu-Af-Po4.05

Track Classification: E1 - Motors