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## **M3Or3H-03: [Invited] Development of MgB<sub>2</sub> superconductor wires, cables, coils and their applications**

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In this paper Hyper Tech Research will report on the development of magnesium diboride superconductor wires and cables including 1st generation, 2nd generation conductors and conductors with significantly lower AC losses. We will show that present day MgB<sub>2</sub> conductors are usable for DC and AC applications such SMES, motors and generators. Superconducting and mechanical properties of strands and cables will be discussed in addition to loss values and strand/cable architecture.

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