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## Observation of spin Seebeck effect in YIG/Co<sub>100-x</sub>Nb<sub>x</sub> alloys

The conversion of heat to spin current is well known as spin Seebeck effect (SSE). In this study, we observed spin voltage on Co and Nb which acting for spin detector whereas the ferrimagnetic (YIG) is used for spin injector. We studied phase diagram, surface structure and magnetic property by XRD, SEM and VSM, respectively. For SSE, the magnetic field dependence and temperature dependence are also observed. We found that the voltage of Co and Nb mixing is enhanced which it can be used for spin generator by these methods.

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