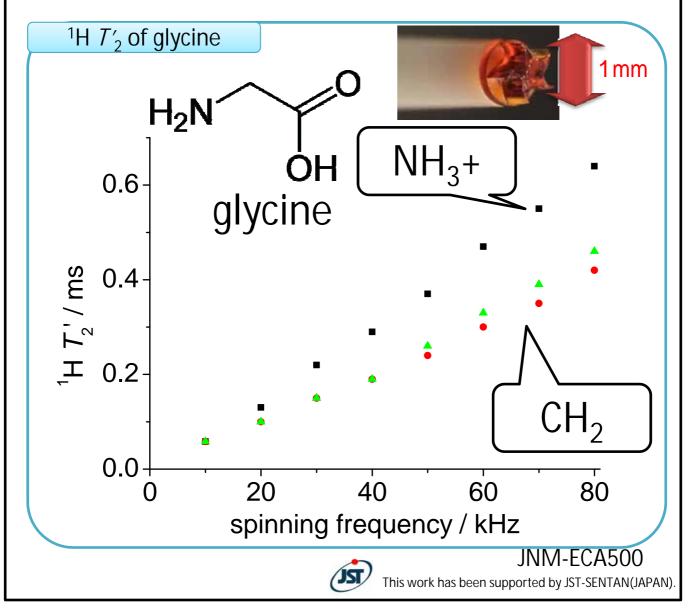
New application field by 80 kHz MAS NMR

Here we show new fields which will be explored in the very near future by 1 mm MAS system. Very fast MAS enhances the transverse relaxation time (T_2) of 1H with spin echo. This is caused by partial decoupling of 1H - 1H dipolar interaction, leading to reduction of homogeneous broadening. The experimentally observed T_2 of glycine is linearly increased with the spinning frequency. It is expected that enhanced T_2 ensure high efficiency in magnetization transfer such as INEPT or HSQC. 1 mm MAS is very suitable for HMQC, HSCQ, INEPT, R-INEPT etc.



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