Higher order fractional Leibniz estimates

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Fractional Leibniz estimates with appropriate correction terms are introduced for homogeneous fractional derivatives of order larger than or equal to one. Those fractional Leibniz estimates have the flexibility in arbitrary redistribution of fractional derivatives in the corresponding bilinear estimates. The method of proof depends on the Coifman-Meyer theory.

This talk is based on a recent joint-work with Kazumasa Fujiwara and Vladimir Georgiev.