

Here, we present the results obtained with the Levenberg-Marquardt fit. The fit was initialized with  $S_0 = 40$ ,  $f = 0.01$ ,  $D = 1 \mu\text{m}^2/\text{ms}$ , and  $D^* = 10 \mu\text{m}^2/\text{ms}$ . Since the standard deviation of the fitted parameters was much larger than for the segmented fit, the Table shows the median values. The fit nonetheless supports the main finding  $f$  is considerably smaller at 7 T.

	<b>B<sub>0</sub> (T)</b>	<b>GM<sub>Baseline</sub></b>	<b>GM<sub>Activation</sub></b>	<b>TA<sub>Baseline</sub></b>	<b>TA<sub>Activation</sub></b>
$f$ (%)	0.55	8.37	14.31	4.51	5.84
	7	3.13	4.85	4.41	4.55
$D$ ( $\mu\text{m}^2/\text{ms}$ )	0.55	1.35	1.46	1.64	1.62
	7	1.45	1.52	1.63	1.62

