

# Twiss parameter estimation in ATF-EXT

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During the 12<sup>th</sup> march shift, the Twiss parameters have been estimated using 2 methods :

1/ Multi-wire measurement

- estimation at MW0X

2/ Quad scan measurement

- estimation at entrance of QF6X for « x »

- estimation at entrance of QF5X for « y »

Those values have been back-propagated at the entrance of EXT-line (assuming QM7 at niminale value and QF3X at 95%)

Those estimation are given with some error level :

	<sup>&lt;0</sup> MW0X	QF6X	QF5X
Beta x	-0.38 < 2.84 < 6.06	3.58 < 4.35 < 9.93	-----
Alpha x	0.86 < 1.76 < 2.65	1.08 < 1.32 < 2.62	-----
Beta y	-1.02 < 0.28 < 1.58	-----	0.57 < 0.64 < 0.71
Alpha y	-4.5 < 0.18 < 4.89	-----	0.30 < 1.23 < 2.18



