**Added parts :**

Section 4 has been added to the previous conference article entitled « Effect of Short Pulsed Program/Erase Cycling on Flash Memory Devices », which has been presented at the Imeko TC 10 conference in Milan, June 27-28 2016. Other sections have been modified accordingly in order to integrate section 4.

This new section presents new experimental results that were not part of the original article / oral presentation at the conference.