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Contribution ID: **3277** Type: **Oral Competition (Graduate Student) / Compétition orale (Étudiant(e) du 2e ou 3e cycle)**

(G*) Single Photon Air Analyzer

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ne can go days without water and food but only a few minutes without air. Side effects of air pollutants have been well studied and documented. The results from these studies make it essential for us to monitor air quality. In this talk, we report the design of a small and low-cost yet efficient air quality monitor. The technique used is single-photon detection which is scattered off the particles. Silicon Photomultiplier (SiPM) is being used as the detector, which is relatively new in the pollution monitoring system. Along with the challenge and results of the prototype, the future plan will be discussed.

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