

**S107-013**

**Room: 302**

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## **Holocene paleoseismic history and possible segmentation on the Yamagata-Bonchi fault zone, in northern Honshu, Japan**

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To reveal the paleoseismic history and evaluate the future earthquake potential on the Yamagata-Bonchi fault zone, we have excavated several trenches at the two sites across the fault. We then found evidence for more than four events in the past 10,000 years at the northern part of the fault zone, whereas the only one at the trench site in southern fault zone. Together with the fault zone discontinuity at the center of the fault, we propose the Yamagata-Bonchi fault zone can be divided into two behavioral segments that might have ruptured simultaneously at one of their earthquake cycles.