

# Measurement of Thermal Effects on the Advanced Photon Source Storage Ring Vacuum Chamber\*

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## **Abstract**

From the start of operations of the Advanced Photon Source storage ring, we have observed small thermally related dipole sources appearing soon after filling. Because there are many like sources occurring at about the same time, it has been difficult to locate them. Some sources have recently been located with a specially configured orbit correction running while the vacuum chamber temperature is changed. Vacuum chamber motion, seen as an apparent orbit change, can also be estimated from the results.

**Keywords:** orbit stability, thermal stability

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