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Patrick M. Gilmer* (gilmer@math.lsu.edu) and **Stepan Yu Orevkov**. *Signatures of real algebraic curves via plumbing diagrams*. Preliminary report.

Let Q denote S^3 modulo the quaternion 8-group. The first author associated a link $L(C)$ in Q to a real algebraic curve C (equipped with a complex orientation) in the real projective plane. We give a graph link description of $L(C)$ inside a plumbing description of Q which is adapted to C . This is used to compute signature and nullity invariants of $L(C)$ that are associated to odd-prime-fold branched covers of Q along $L(C)$. (Received August 21, 2013)