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Wenyu Pan* (wenyu.pan@yale.edu), Yale University, Mathematics Dept., 10 Hillhouse Ave,
New Haven, CT 06511. *Effective equidistribution of circles in the limit sets of Kleinian groups.*

Consider a general circle packing \mathcal{P} in the complex plane \mathbb{C} invariant under a Kleinian group Γ . When Γ is convex-cocompact or its critical exponent is greater than 1, we obtain an effective equidistribution for small circles in \mathcal{P} intersecting any bounded connected regular set in \mathbb{C} ; this provides an effective version of an earlier work of Oh-Shah. In view of the recent result of McMullen-Mohammadi-Oh, our effective circle counting theorem applies to the circles contained in the limit set of a convex-cocompact but non-cocompact Kleinian group whose limit set contains at least one circle. Moreover consider the circle packing $\mathcal{P}(\mathcal{T})$ of the ideal triangle in \mathbb{H}^2 attained by filling in largest inner circles. We give an effective estimate to the number of disks whose hyperbolic areas are greater than t , as $t \rightarrow 0$, effectivising the work of Oh. (Received January 31, 2016)