## Asymptotic Symmetries for Conformal Scalar Curvature Equations with Singularity

We give conditions on a positive Hölder continuous function $K(x)$ such that every $C^{2}$ positive solution $u(x)$ of the conformal scalar curvature equation

$$
\Delta u+K(x) u^{\frac{n+2}{n-2}}=0
$$

in a punctured neighborhood of the origin in $\mathbf{R}^{n}$ either has a removable singularity at the origin or satisfies

$$
u(x)=u_{0}(|x|)\left(1+O\left(|x|^{\beta}\right)\right) \quad \text { as } \quad|x| \rightarrow 0^{+}
$$

for some positive singular solution $u_{0}(|x|)$ of

$$
\Delta u_{0}+K(0) u_{0}^{\frac{n+2}{n-2}}=0 \quad \text { in } \quad \mathbf{R}^{n} \backslash\{0\}
$$

where $\beta \in(0,1)$ is the Hölder exponent of $K$.

