1020-53-16   **Mohammad Javaheri*** (`javaheri@uoregon.edu`), 331 Fenton Hall, University of Oregon, Eugene, OR 97403. *Conformally Compact Einstein Metrics with Symmetry in Dimension 5.*

We study the Dirichlet problem for conformally compact Einstein metrics on 5-manifolds with globally static isometric circle actions. As an application of our general results we show that any non-flat analytic warped product metric on $\partial M \times S^1$ with non-negative scalar curvature is the conformal infinity of some Einstein metric on $M^4 \times S^1$. (Received June 28, 2006)