Let $\mathcal{F}$ be a transversally orientable foliation of codimension 1 on a complete, orientable Riemann manifold $M$. The authors show that if $M$ is compact and 3-dimensional, then the foliation is geodesible if and only if either it is transverse to a Seifert fibering, or it is obtained as follows: An element $A$ of $\text{SL}_2(\mathbb{Z})$ with trace greater than 2 is used to construct a torus bundle $M$ over the circle, and $\mathcal{F}$ arises from one of the eigenspaces of $A$. Along the way, the authors show that the universal cover of a totally geodesic, codimension 1 foliation of any dimension is a product. Hence, if $M$ is compact and $\mathcal{F}$ has a compact leaf, then $M$ fibers over the circle and $\mathcal{F}$ is transverse to a generalized Seifert fibering.

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