Let $G$ be an $n$-torus, $M$ a compact manifold and $G \times M \to M$ an action of $G$ on $M$ having the property that the fixed point sets are isolated points. For such an action the equivariant cohomology ring of $M$ sits inside a larger ring: the "assignment ring", (a ring which describes the "orbit type stratification" of $M$ by fixed point sets of subgroups of $G$), and these two rings coincide if and only if $M$ is a GKM manifold, i.e. if and only if for every fixed point, $p$, the weights of the isotropy action of $G$ on the tangent space to $M$ at $p$ are pairwise non-collinear. In this talk I will describe what happens when one slightly weakens this condition: i.e. requires that at most two weights be collinear.

P.S. The results I will report on are joint with Catalin Zara and Sue Tolman.