Embeddings of weighted Morrey spaces

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We consider embedding theorems within the scale of weighted Morrey spaces $\mathcal{M}_{u,p}(\mathbb{R}^n, w)$, where the weight w belongs to the Muckenhoupt class $\mathcal{A}_\infty$ and $0 < p \leq u < \infty$. This includes, in particular, the classical setting of weighted Lebesgue spaces. We study some typical examples for the weight like $w(x) = |x|^\alpha$, $\alpha > -n$, but also deal with quite general assumptions. This is joint work with Leszek Skrzypczak (Poznań).