

D-BRANES ON CALABI—YAU MANIFOLDS

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S u m m a r y

The description of BPS *D*-branes of type II superstring theories compactified on Calabi—Yau manifolds is discussed. For a subclass of *D*-branes defined by the derived category of coherent sheaves on a Calabi—Yau manifold at an arbitrary point of the moduli space, the property of a *D*-brane Π -stability is clarified.