Instrumental JESR JES flavour composition JES flavour response JES pileup ρ topology JER EffectiveNP 1 JES pileup offset NPV JER EffectiveNP 3 JES η intercalibration modelling JER EffectiveNP 4 JER DataVsMC MC16 JER EffectiveNP 9 JER EffectiveNP 6 JER EffectiveNP 12restTerm JER EffectiveNP 10 JER EffectiveNP 2 JER EffectiveNP 8 JES pileup pT term JES pileup offset μ JER EffectiveNP 5 JES BJES Response JES effective NP stat. 2 0.5 1.5 2.5 Pull significance