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Title:	Measurement of the CKM angle ϕ 1 in B 0 \to $^-$ D (*) 0 h 0 , $^-$ D 0 \to K 0 S π + π – decays with time-dependent binned Dalitz plot analysis					
Authors:	Bhardwaj, V. (/jspui/browse?type=author&value=Bhardwaj%2C+V.)					
Keywords:	Violation parameter Analysis Time-dependent Measurements					
Issue Date:	2016					
Publisher:	American Physical Society					
Citation:	Physical Review D,94(5).					
Abstract:	We report a measurement of the C P -violation parameter ϕ 1 obtained in a time-dependent analysis of B 0 \rightarrow^- D (*) 0 h 0 decays followed by $^-$ D 0 \rightarrow K 0 S π + π – decay. A model-independent measurement is performed using the binned Dalitz plot technique. The measured value is ϕ 1 = 11.7 ° ± 7.8 ° (stat) ± 2.1 ° (syst) . Treating sin 2 ϕ 1 and cos 2 ϕ 1 as independent parameters, we obtain sin 2 ϕ 1 = 0.43 ± 0.27 (stat) ± 0.08 (syst) and cos 2 ϕ 1 = 1.06 ± 0.33 (stat) + 0.21 – 0.15 (syst) . The results are obtained with a full data sample of 772 × 1 0 6 B $^-$ B pairs collected near the Y (4 S) resonance with the Belle detector at the KEKB asymmetric-energy e + e $^-$ collider.					
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