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Title:	Invariant-mass and fractional-energy dependence of inclusive production of dihadrons in e^+e^- annihilation at $\sqrt{s} = 10.58$ GeV
Authors:	Bhardwaj, V. (/jspui/browse?type=author&value=Bhardwaj%2C+V.)
Keywords:	Invariant-mass fractional-energy di-hadrons e^+e^- annihilation at $\sqrt{s} = 10.58$ GeV
Issue Date:	2017
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Citation:	Physical Review A, 96 (3)
Abstract:	The inclusive cross sections for di-hadrons of charged pions and kaons ($e^+e^- \rightarrow hhX$) in electron-positron annihilation are reported. They are obtained as a function of the total fractional energy and invariant mass for any di-hadron combination in the same hemisphere as defined by the thrust event-shape variable and its axis. Since same-hemisphere di-hadrons can be assumed to originate predominantly from the same initial parton, di-hadron fragmentation functions are probed. These di-hadron fragmentation functions are needed as an unpolarized baseline in order to quantitatively understand related spin-dependent measurements in other processes and to apply them to the extraction of quark transversity distribution functions in the nucleon. The di-hadron cross sections are obtained from a 655fb^{-1} data sample collected at or near the $Y(4S)$ resonance with the Belle detector at the KEKB asymmetric-energy e^+e^- collider.
Description:	Only IISERM authors are available in the record.
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