

1. Record Nr.	UNINA9910346944003321
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Titolo	Parameterisation of electromagnetic showers and search for large extra dimensions in pp collisions at $s = 14$ TeV
Pubbl/distr/stampa	KIT Scientific Publishing, 2006
ISBN	1000005640
Descrizione fisica	1 online resource (170 p.)
Soggetti	Physics
Lingua di pubblicazione	Inglese
Formato	Materiale a stampa
Livello bibliografico	Monografia
Sommario/riassunto	<p>The emission of dibenzofurans and dioxins from industrial processes is a major environmental concern. Focussing on dibenzofuran, this study tend to improve our understanding of the general oxidation chemistry and to provide a mechanism suitable for future modelling studies.</p> <p>Based on quantum chemical methods, energies, chemical structures and reactions are calculated numerically. Not only stable molecules and radicals, but also transition states are reported in this work.</p>