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Nota di contenuto	<p>Intro -- Supervisor's Foreword -- Abstract -- Acknowledgments --</p> <p>Contents -- Acronyms -- 1 Introduction -- References -- 2</p> <p>Astrophysical Context -- 2.1 Radiation -- 2.1.1 Cosmic Rays -- 2.1.2</p> <p>Gamma Rays -- 2.1.3 Neutrinos -- 2.1.4 Gravitational Waves -- 2.2</p> <p>Sources -- 2.2.1 Starburst Galaxies -- 2.2.2 Active Galactic Nuclei --</p> <p>References -- 3 Physics for High-Energy Astrophysics -- 3.1 The Hillas Criterion -- 3.2 Transport Equation -- 3.3 Acceleration Mechanisms --</p> <p>3.3.1 Fermi's Original Idea -- 3.3.2 Stochastic Diffusive Acceleration --</p> <p>3.3.3 Diffusive Shock Acceleration -- 3.3.4 Other Mechanisms -- 3.4</p> <p>Losses -- 3.4.1 Escape Processes -- 3.4.2 Energy Losses -- 3.4.3</p> <p>Absorption and Electron-Positron Pair Production -- References -- 4</p> <p>Particle Acceleration in the Superwind of Starburst Galaxies. Part I:</p> <p>Large-Scale Processes -- 4.1 Introduction -- 4.2 Basic Model -- 4.2.1</p> <p>Superwind -- 4.2.2 Scaling Relations -- 4.2.3 Dynamical Conditions --</p> <p>4.3 NGC 253 -- 4.4 Particle Acceleration and Losses -- 4.4.1</p> <p>Acceleration Conditions -- 4.4.2 Stochastic Diffusive Acceleration --</p> <p>4.4.3 Diffusive Shock Acceleration -- 4.4.4 Losses and Maximum</p> <p>Energies -- 4.4.5 Particle Distributions -- 4.5 Results -- 4.5.1 Spectral</p> <p>Energy Distributions -- 4.6 Discussions -- 4.6.1 Higher Energies? --</p> <p>4.6.2 A Starving Black Hole? -- 4.6.3 Other Potential Sources of CR in</p> <p>the Disk -- 4.6.4 Propagation and Effects Upon Arrival -- 4.7 Summary</p>

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2. Record Nr.	UNIORUON00095071
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Note generali

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