

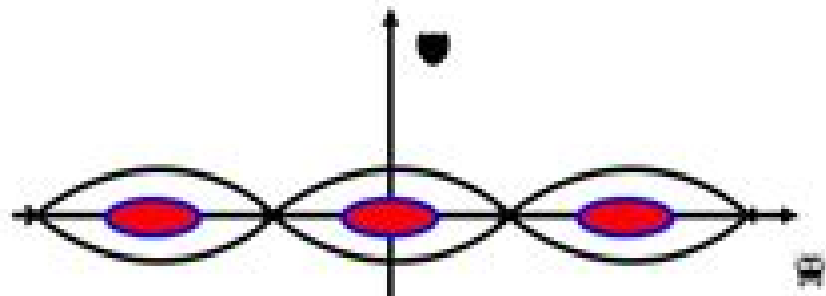
# Bunch length pre-compression

## motivation:

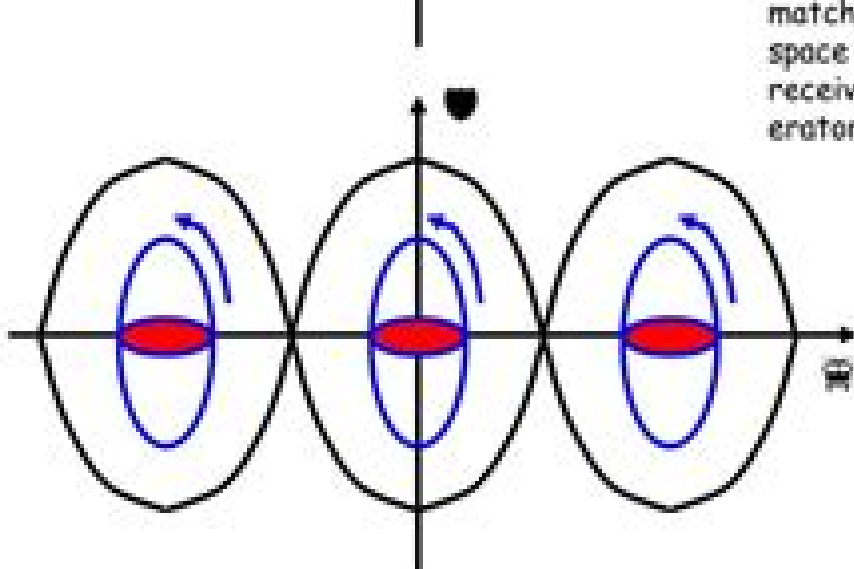
- produce short bunches (at "expense" of increased energy spread)
- for longitudinal matching from one accelerator to a downstream accelerator
- for reducing beam loss in downstream transfer line with high dispersion
- for longitudinal phase space matching (energy spread to bucket in receiving accelerator)

concept: induce longitudinal quadrupole-mode oscillation by variation of rf voltage amplitude

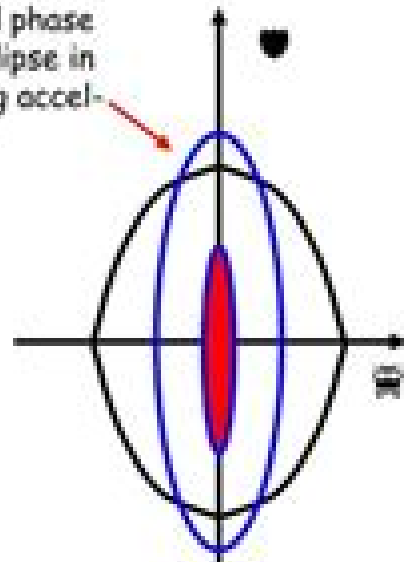
initial state:  
bunches matched  
in longitudinal  
phase space



mismatch in  
longitudinal  
phase space  
after raising  
cavity voltage



matched phase  
space ellipse in  
receiving accel-  
erator



longitudinal  
phase space  
after 1/4  
synchrotron  
oscillation  
period

# 3 Bunch Compression And Longitudinal Beam Dynamics

## 3 1

**Pamela Hsienping Kung**



### 3 Bunch Compression And Longitudinal Beam Dynamics 3 1:

Free Electron Lasers 2003 Eisuke J. Minehara, Masaru Sawamura, Ryoichi Hajima, 2012-12-02 This book contains the Proceedings of the 25th International Free Electron Laser Conference and the 10th Free Electron Laser Users Workshop which were held on September 8-12 2003 in Tsukuba Ibaraki in Japan

**Handbook Of Accelerator Physics And Engineering (Third Edition)** Alexander Wu Chao, Maury Tigner, Hans Weise, Frank Zimmermann, 2023-02-02 Edited by internationally recognized authorities in the field this expanded and updated new edition of the bestselling Handbook containing many new articles is aimed at the design and operation of modern particle accelerators It is intended as a vade mecum for professional engineers and physicists engaged in these subjects With a collection of more than 2000 equations 300 illustrations and 500 graphs and tables here one will find in addition to common formulae of previous compilations hard to find specialized formulae recipes and material data pooled from the lifetime experience of many of the world's most able practitioners of the art and science of accelerators The seven chapters include both theoretical and practical matters as well as an extensive glossary of accelerator types Chapters on beam dynamics and electromagnetic and nuclear interactions deal with linear and nonlinear single particle and collective effects including spin motion beam environment beam-beam electron beam ion and intrabeam interactions The impedance concept and related calculations are dealt with at length as are the instabilities due to the various interactions mentioned A chapter on operational considerations including discussions on the assessment and correction of orbit and optics errors realtime feedbacks generation of short photon pulses bunch compression phase space exchange tuning of normal and superconducting linacs energy recovery linacs free electron lasers cryogenic vacuum systems steady state microbunching cooling space charge compensation brightness of light sources collider luminosity optimization and collision schemes machine learning multiple frequency rf systems FEL seeding ultrafast electron diffraction and Gamma Factory Chapters on mechanical and electrical considerations present material data and important aspects of component design including heat transfer and refrigeration Hardware systems for particle sources feedback systems confinement including undulators and acceleration both normal and superconducting receive detailed treatment in a sub systems chapter beam measurement and apparatus being treated therein as well A detailed name and subject index is provided together with reliable references to the literature where the most detailed information available on all subjects treated can be found

Free Electron Lasers 2002 K.-J. Kim, S.V. Milton, E. Gluskin, 2012-12-02 This book contains the Proceedings of the 24th International Free Electron Laser Conference and the 9th Free Electron Laser Users Workshop which were held on September 9-13 2002 at Argonne National Laboratory Part I has been reprinted from Nucl Instr and Meth A 507 2003 Nos 1-2

**1992 Linear Accelerator Conference Proceedings**, 1992 Energy Research Abstracts, 1989 *Proceedings*, 1995 *Research Report NIFS-PROC Series*, 2017-08 **Proceedings of the 1997 Particle Accelerator Conference** Martin Comyn, 1998 Physics of Particles and Nuclei Letters, 2004 **Generation and**

**Characterization of Sub-picosecond Electron Bunches** Pamela Hsienping Kung,1995 **Journal de physique** ,2006  
**Soviet Physics** ,1972 **Applications of High-power Microwaves** A. V. Gaponov-Grekhov,Victor L. Granatstein,1994  
 Here is your one stop source of all the important research in relativistic microwave electronics in the past two decades  
 advances that have greatly enhanced both the peak power and the average power capabilities of microwave oscillators and  
 amplifiers especially at millimeter wavelengths **Japanese Journal of Applied Physics** ,2005 **Soviet Physics, JETP.**  
 ,1972 **High Energy Physics Index** ,1990 Present and Future of Collider Physics C. Bacci,1991 Government  
Reports Announcements & Index ,1991 Proceedings of the Symposium on Accelerator Aspects of Heavy Ion Fusion, Held  
at the Gesellschaft Für Schwerionenforschung, Darmstadt, West Germany, March 29 to April 2, 1982 ,1982 11th  
International Conference on High-Energy Accelerators Wolfgang Simon Newman,1980 The Conference timetable had to be  
 so arranged as to spread the main topics over several separate sessions It was therefore decided to publish the material in  
 these Proceedings under nine subject headings irrespective of session Within each chapter which is preceded by a list of the  
 sessions featuring the subject all papers invited and contributed whether presented at the Conference or accepted for  
 publication only have been arranged in some logical order The reports of the four Panel Discussions were edited or  
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