

# A HEREDITARILY INDECOMPOSABLE BANACH SPACE WITH RICH SPREADING MODEL STRUCTURE

SPIROS A. ARGYROS, PAVLOS MOTAKIS

**ABSTRACT.** We present a reflexive Banach space  $X_{\infty}$  which is Hereditarily Indecomposable and satisfies the following properties. In every subspace  $Y$  of  $X_{\infty}$  there exists a weakly null normalized sequence  $\{y_n\}_n$ , such that every subsymmetric sequence  $\{z_n\}_n$  is isomorphically generated as a spreading model of a subsequence of  $\{y_n\}_n$ . Also, in every block subspace  $Y$  of  $X_{\infty}$  there exists a seminormalized block sequence  $\{z_n\}$  and  $T : X_{\infty} \rightarrow X_{\infty}$  an isomorphism such that for every  $n \in \mathbb{N}$   $T(z_{2n-1}) = z_{2n}$ . Thus the space is an example of an HI space which is not tight by range in a strong sense.

## INTRODUCTION

The aim of the present paper is to exhibit a space with the properties described in the abstract. The norming set  $W$  of the space  $X_{\infty}$  is saturated with constraints and it is very similar to the corresponding one in [3]. As it is pointed out in [3] the method of saturation under constraints is suitable for defining spaces with hereditary heterogeneous structure ([15], [16]). The basic ingredients of the norming set  $W$  are the following. First the unconditional frame is the ball of the dual  $T^*$  of Tsirelson space [9, 19]; namely  $W$  is a subset of  $B_{T^*}$  which satisfies the following properties. As in [3] it is closed in the operations  $(\frac{1}{\gamma}x, \mathcal{S}_\alpha, \alpha)$ ,  $(\frac{1}{\gamma}x, \mathcal{S}_\alpha, \beta)$  which create the type  $I_\alpha$ , type  $I_\beta$  functionals respectively. Furthermore it includes two types of special functionals denoted as type  $II_+$  and type  $II_-$  functionals. The type  $II_-$  functionals are designed to impose the rich spreading model structure in the space  $X_{\infty}$ , while the type  $II_+$  functionals serve a double purpose. First they are a tool for finding  $c_0$  spreading models in every subspace of  $X_{\infty}$ . The  $c_0$  spreading models are the fundamental initial ingredient for the ultimate construction. The second role of the type  $II_+$  functionals is to show that the space  $X_{\infty}$  is not tight by range. We recall that recently V. Ferenczi and Th. Schlumprecht have presented in [8] a variant of Gowers-Maurey HI space ([11]) which is HI and not tight by range.

Since the norming set  $W$  is similar to the one in [3] many of the critical norm evaluations in the present paper are identical with the corresponding ones in [3]. The main difference of the present construction from the one

2010 *Mathematics Subject Classification*: Primary 46B03, 46B06, 46B25, 46B45

*Key words*: Spreading models, Strictly singular operators, Reflexive spaces, Hereditarily indecomposable spaces

# Methods In The Theory Of Hereditarily Indecomposable Banach Spaces

**Javier Fernández de Bobadilla**



## **Methods In The Theory Of Hereditarily Indecomposable Banach Spaces:**

**Methods in the Theory of Hereditarily Indecomposable Banach Spaces** Spiros Argyros, Andreas Tolias, 2004 A general method producing Hereditarily Indecomposable H I Banach spaces is provided We apply this method to construct a nonseparable H I Banach space  $Y$  This space is the dual as well as the second dual of a separable H I Banach space

Methods in Banach Space Theory Jesus M. F. Castillo, William B. Johnson, 2006-11-30 A comprehensive overview of modern Banach space theory

**Homological Methods in Banach Space Theory** Félix Cabello Sánchez, Jesús M. F. Castillo, 2023-01-26 Approaches Banach space theory using methods from homological algebra with concrete examples and proofs of many new and classical results

**Ramsey Methods in Analysis** Spiros A. Argyros, Stevo Todorcevic, 2006-03-30 This book contains two sets of notes prepared for the Advanced Course on Ramsey Methods in Analysis given at the Centre de Recerca Matemàtica in January 2004 as part of its year long research programme on Set Theory and its Applications The common goal of the two sets of notes is to help young mathematicians enter a very active area of research lying on the borderline between analysis and combinatorics The solution of the distortion problem for the Hilbert space the unconditional basic sequence problem for Banach spaces and the Banach homogeneous space problem are samples of the most important recent advances in this area and our two sets of notes will give some account of this But our main goal was to try to expose the general principles and methods that lie hidden behind and are most likely useful for further developments The goal of the first set of notes is to describe a general method of building norms with desired properties a method that is clearly relevant when testing any sort of intuition about the infinite dimensional geometry of Banach spaces The goal of the second set of notes is to expose Ramsey theoretic methods relevant for describing the rough structure present in this sort of geometry We would like to thank the coordinator of the Advanced Course Joan Barria and the director of the CRM Manuel Castellet for giving us this challenging but rewarding opportunity

Part A Saturated and Conditional Structures in Banach Spaces Spiros A

**Handbook of the Geometry of Banach Spaces**, 2003-05-06 Handbook of the Geometry of Banach Spaces

**Handbook of the Geometry of Banach Spaces** William B. Johnson, Joram Lindenstrauss, 2001 The Handbook presents an overview of most aspects of modern Banach space theory and its applications The up to date surveys authored by leading research workers in the area are written to be accessible to a wide audience In addition to presenting the state of the art of Banach space theory the surveys discuss the relation of the subject with such areas as harmonic analysis complex analysis classical convexity probability theory operator theory combinatorics logic geometric measure theory and partial differential equations The Handbook begins with a chapter on basic concepts in Banach space theory which contains all the background needed for reading any other chapter in the Handbook Each of the twenty one articles in this volume after the basic concepts chapter is devoted to one specific direction of Banach space theory or its applications Each article contains a motivated introduction as well as an exposition of the main results methods and open problems in its specific direction Most have an

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*Infinite Dimensional Complex Symplectic Spaces* William Norrie Everitt, Lawrence Markus, 2004 Complex symplectic spaces are non trivial generalizations of the real symplectic spaces of classical analytical dynamics This title presents a self contained investigation of general complex symplectic spaces and their Lagrangian subspaces regardless of the finite or infinite dimensionality

**The Complex Monge-Ampere Equation and Pluripotential Theory** Sławomir Kołodziej, 2005 We collect here results on the existence and stability of weak solutions of complex Monge Ampere equation proved by applying pluripotential theory methods and obtained in past three decades First we set the stage introducing basic concepts and theorems of pluripotential theory Then the Dirichlet problem for the complex Monge Ampere equation is studied The main goal is to give possibly detailed description of the nonnegative Borel measures which on the right hand side of the equation give rise to plurisubharmonic solutions satisfying additional requirements such as continuity boundedness or some weaker ones In the last part the methods of pluripotential theory are implemented to prove the existence and stability of weak solutions of the complex Monge Ampere equation on compact Kahler manifolds This is a generalization of the Calabi Yau theorem

**The Complete Dimension Theory of Partially Ordered Systems with Equivalence and Orthogonality** K. R. Goodearl, Friedrich Wehrung, 2005 Introduction Partial commutative monoids

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**Moduli Spaces of Polynomials in Two Variables** Javier Fernández de Bobadilla, 2005 Investigates the geometry of the orbit space This book associates a graph with each polynomial in two variables that encodes part of its geometric properties at infinity It also defines a partition of  $\mathbb{C} \times \mathbb{C}$  imposing that the polynomials in the same stratum are the polynomials with a fixed associated graph

The Calculus of One-Sided  $M$ -Ideals and Multipliers in Operator Spaces David P. Blecher, Vrej Zarijian, 2006 The theory of one sided  $M$  ideals and multipliers of operator spaces is simultaneously a generalization of classical  $M$  ideals in operator algebras and aspects of the theory of Hilbert  $C$  modules and their maps Here we give a systematic exposition of this theory The main part of this memoir consists of a calculus for one sided  $M$  ideals and multipliers i e a collection of the properties of one sided  $M$  ideals and multipliers with respect to the basic constructions met in functional analysis This is intended to be a reference tool for noncommutative functional analysts who may encounter a one sided  $M$  ideal or multiplier in their work

**Kahler Spaces, Nilpotent Orbits, and Singular Reduction** Johannes Huebschmann, 2004 For a stratified symplectic space a suitable concept of stratified Kahler polarization encapsulates Kahler polarizations on the strata and the behaviour of the polarizations across the strata and leads to the notion of stratified Kahler space which establishes an intimate relationship

between nilpotent orbits singular reduction invariant theory reductive dual pairs Jordan triple systems symmetric domains and pre homogeneous spaces The closure of a holomorphic nilpotent orbit or equivalently the closure of the stratum of the associated pre homogeneous space of parabolic type carries a positive normal Kahler structure In the world of singular Poisson geometry the closures of principal holomorphic nilpotent orbits positive definite hermitian JTS s and certain pre homogeneous spaces appear as different incarnations of the same structure The closure of the principal holomorphic nilpotent orbit arises from a semisimple holomorphic orbit by contraction Symplectic reduction carries a positive Kahler manifold to a positive normal Kahler space in such a way that the sheaf of germs of polarized functions coincides with the ordinary sheaf of germs of holomorphic functions Symplectic reduction establishes a close relationship between singular reduced spaces and nilpotent orbits of the dual groups Projectivization of holomorphic nilpotent orbits yields exotic positive stratified Kahler structures on complex projective spaces and on certain complex projective varieties including complex projective quadrics The space of in general twisted representations of the fundamental group of a closed surface in a compact Lie group or equivalently a moduli space of central Yang Mills connections on a principal bundle over a surface inherits a positive normal stratified Kahler structure Physical examples are provided by certain reduced spaces arising from angular momentum zero

**Banach Space Theory** Marián Fabian,Petr Habala,Petr Hájek,Vicente Montesinos,Václav Zizler,2011-02-04 Banach spaces provide a framework for linear and nonlinear functional analysis operator theory abstract analysis probability optimization and other branches of mathematics This book introduces the reader to linear functional analysis and to related parts of infinite dimensional Banach space theory Key Features Develops classical theory including weak topologies locally convex space Schauder bases and compact operator theory Covers Radon Nikod m property finite dimensional spaces and local theory on tensor products Contains sections on uniform homeomorphisms and non linear theory Rosenthal s L1 theorem fixed points and more Includes information about further topics and directions of research and some open problems at the end of each chapter Provides numerous exercises for practice The text is suitable for graduate courses or for independent study Prerequisites include basic courses in calculus and linear Researchers in functional analysis will also benefit for this book as it can serve as a reference book

**Equivalences of Classifying Spaces Completed at the Prime Two** Robert Oliver,2006 We prove here the Martino Priddy conjecture at the prime 2 the 2 completions of the classifying spaces of two finite groups  $G$  and  $G$  are homotopy equivalent if and only if there is an isomorphism between their Sylow 2 subgroups which preserves fusion This is a consequence of a technical algebraic result which says that for a finite group  $G$  the second higher derived functor of the inverse limit vanishes for a certain functor  $\mathcal{Z}_G$  on the 2 subgroup orbit category of  $G$  The proof of this result uses the classification theorem for finite simple groups

**Twisted Tensor Products Related to the Cohomology of the Classifying Spaces of Loop Groups** Katsuhiko Kuribayashi,Mamoru Mimura,Tetsu Nishimoto,2006 Let  $G$  be a compact simply connected simple Lie group By applying the notion of a twisted

tensor product in the senses of Brown as well as of Hess we construct an economical injective resolution to compute as an algebra the cotorsion product which is the  $E_2$  term of the cobar type Eilenberg Moore spectral sequence converging to the cohomology of classifying space of the loop group  $LG$ . As an application the cohomology  $H^1(BSpin(10), \mathbb{Z}/2)$  is explicitly determined as an  $H^1(BSpin(10), \mathbb{Z}/2)$  module by using effectively the cobar type spectral sequence and the Hochschild spectral sequence and further by analyzing the TV model for  $BSpin(10)$ .

**On Maps from Loop Suspensions to Loop Spaces and the Shuffle Relations on the Cohen Groups** Jie Wu, 2006 The maps from loop suspensions to loop spaces are investigated using group representations in this article. The shuffle relations on the Cohen groups are given. By using these relations a universal ring for functorial self maps of double loop spaces of double suspensions is given. Moreover the obstructions to the classical exponent problem in homotopy theory are displayed in the extension groups of the dual of the important symmetric group modules  $Lie(n)$  as well as in the top cohomology of the Artin braid groups with coefficients in the top homology of the Artin pure braid groups.

**Exceptional Vector Bundles, Tilting Sheaves and Tilting Complexes for Weighted Projective Lines** Hagen Meltzer, 2004 Deals with weighted projective lines a class of non commutative curves modelled by Geigle and Lenzing on a graded commutative sheaf theory. They play an important role in representation theory of finite dimensional algebras the complexity of the classification of coherent sheaves largely depends on the genus of these curves.

*The Conjugacy Problem and Higman Embeddings* Aleksandr I. Ushakov, Ol'shanskii, Mark Sapir, 2004 For every finitely generated recursively presented group  $G$  we construct a finitely presented group  $H$  containing  $G$  such that  $G$  is Frattini embedded into  $H$  and the group  $H$  has solvable conjugacy problem if and only if  $G$  has solvable conjugacy problem.

**Mutually Catalytic Super Branching Random Walks: Large Finite Systems and Renormalization Analysis** J. T. Cox, Jeff Groah, Donald Andrew Dawson, Andreas Greven, 2004 Studies the evolution of the large finite spatial systems in size dependent time scales and compare them with the behavior of the infinite systems which amounts to establishing the so called finite system scheme. This title introduces the concept of a continuum limit in the hierarchical mean field limit.

Uniformizing Dessins and Belyi Maps via Circle Packing Philip L. Bowers, Kenneth Stephenson, 2004 Introduction Dessins d'enfants Discrete Dessins via circle packing Uniformizing Dessins A menagerie of Dessins d'enfants Computational issues Additional constructions Non equilateral triangulations The discrete option Appendix Implementation Bibliography

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