

# LOCALLY COMPACT GROUPS WITH ALL DENSE SUBGROUPS SEPARABLE

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**ABSTRACT.** Following from a recent result in reference [8], a locally compact group with all dense subspaces separable is metrizable. In this paper we investigate the circumstances when the “subspaces” is replaced by “subgroups”. In general, it fails. However, positive answers are given here for two elementary cases, say, when the group is additionally assumed to be either compact abelian or compact connected. At the end of this note, it is shown that a locally compact group with all subgroups separable is metrizable.

## 1. INTRODUCTION

Recall that the *density*  $d(X)$  of a topological space  $X$  is the minimum cardinal  $\tau$  such that  $X$  admits a dense subset of size  $\tau$ . A topological space with countable density is called separable.

As known, unlike the metrizable case, a dense subspace of a separable topological space need not be separable. So it is interesting to study the densities of dense subspaces of a (separable) topological space. In a very recent paper [9] by I. Juhász, J. van Mill, L. Soukup, and Z. Szentmiklóssy, the double density spectrum  $dd(X)$  of a topological space  $X$  is defined; it is the set of densities of dense subspaces of  $X$ , i.e.,

$$dd(X) = \{d(Y) | Y \text{ is a dense subspace of } X\}.$$

Some interesting results about the double density spectra for compact spaces were given in their Section 3. Juhász and van Mill’s further study on double density spectra [8] showed that  $dd(G)$  is the interval  $[d(G), w(G)]$  for any locally compact group  $G$ . This particular implies that  $w(G) = d(G)$  if  $dd(G) = \{d(G)\}$  for locally compact groups  $G$ . If  $G$  is separable, we have the following result:

**Claim 1.1.** *If  $G$  is a locally compact group with all dense subspaces separable, then  $G$  is metrizable.*

In the category of topological groups, we are usually concerned with subgroups more than subspaces. So it is natural to ask whether one can replace “subspaces” by “subgroups” in the above result.

We shall give two examples to show this does not hold in general: there exists a non-metrizable locally compact abelian group  $G$  and a non-metrizable connected locally compact

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# Locally Compact Guidelines

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## Locally Compact Guidelines:

**A Guide to the Classification Theorem for Compact Surfaces** Jean Gallier, Dianna Xu, 2013-02-05 This welcome boon for students of algebraic topology cuts a much needed central path between other texts whose treatment of the classification theorem for compact surfaces is either too formalized and complex for those without detailed background knowledge or too informal to afford students a comprehensive insight into the subject Its dedicated student centred approach details a near complete proof of this theorem widely admired for its efficacy and formal beauty The authors present the technical tools needed to deploy the method effectively as well as demonstrating their use in a clearly structured worked example Ideal for students whose mastery of algebraic topology may be a work in progress the text introduces key notions such as fundamental groups homology groups and the Euler Poincar characteristic These prerequisites are the subject of detailed appendices that enable focused discrete learning where it is required without interrupting the carefully planned structure of the core exposition Gently guiding readers through the principles theory and applications of the classification theorem the authors aim to foster genuine confidence in its use and in so doing encourage readers to move on to a deeper exploration of the versatile and valuable techniques available in algebraic topology

**Local Development Frameworks** Great Britain. Office of the Deputy Prime Minister, 2004 This document sets out planning policies applicable throughout England focusing on procedural aspects and the process of preparing local development documents These should be taken into account by local planning authorities in the preparation of local development frameworks and mineral and waste development frameworks This document complements other national planning policies and should be read in conjunction with them Also known as PPS 12 this document replaces Planning policy guidance note 12 on development plans PPG 12 1999 edition ISBN 1851123490 except that PPG 12 will remain in operation for development plans still being prepared under the 1999 Development Plan Regulations

*Prisons and the Voluntary Sector* Shane Bryans, Roma Walker, 2002-03-31 The book that launched the UK Prison Service initiative to involve the voluntary sector in the running of its prisons Contains details which will enable both parties to understand what is involved the history of voluntary work in prisons which dates back several hundred years and how to set about devising a scheme or promoting an idea

Partners for Good Tom Levitt, 2016-05-13 After a century in which charities suspected the motives of cynical business people and business people dismissed the contributions of amateur volunteers the two sectors are coming together today as never before The third sector has increased its business capacity through the experience gained from a decade of providing commissioned services to the public sector Society today expects employers to do more to engage with both communities and good causes and the business case for doing so can be and is being made But business also realises that charities do conscience better than they can and so co working is increasingly being sought In *Partners for Good* Tom Levitt points the way to successful partnerships at local national and international levels There is now even an agreed international standard on what constitutes the social responsibility obligations of

organisations operating in all sectors in all parts of the world over and above international legal frameworks Sustainability today refers to the triple bottom line financial social environmental rather than being a green concept alone On the down side grants and other funding opportunities provided by governments to the third sector over the last ten years are suddenly ending and support structures are disappearing The incentives for forging successful and sustainable win win partnerships between businesses and charities in the new Big Society are therefore high however demanding the time scale on offer

*Partnerships, New Labour and the governance of welfare* Glendinning, Caroline, Powell, Martin, 2002-07-03 Current policy encourages partnerships between statutory organisations and professionals public and private sectors with voluntary organisations and local communities But is this collaborative discourse really as distinctive as the Labour Government claims How far do contemporary partnerships exemplify an approach to governing which is based on networks as distinct from hierarchies and markets *Partnerships New Labour and the governance of welfare* provides an up to date critical analysis of partnerships addresses the highly topical theme of partnerships as the means of achieving joined up government presents empirical evidence from a wide range of welfare partnerships examines the relationships between local welfare partnerships and the management of those partnerships by central government reveals the imbalance of power which characterises many contemporary partnerships It is essential reading for academics and students of contemporary social and public policy and for those with an interest in networks and other theories of welfare governance *Regional Spatial Strategies* Great Britain. Office of the Deputy Prime Minister, 2004 The provisions of the Planning and Compulsory Purchase Act strengthen the role and importance of regional planning replacing regional planning guidance RPG with statutory regional spatial strategies RSS This document sets out details of procedural policy aspects of the RSSs which apply throughout England with the exception of London where the Mayor has responsibility for preparing a spatial development strategy It complements other statements of national planning policy and should be read in conjunction with them Also known as PPS11 this document replaces Planning policy guidance note 11 PPG11 2000 edition ISBN 0117535575 **A User's Guide to Operator Algebras** Peter A. Fillmore, 1996-04-19 The subject of operator algebras has experienced tremendous growth in recent years with significant applications to areas within algebraic mathematics as well as allied areas such as single operator theory non self adjoint operator algebras K theory knot theory ergodic theory and mathematical physics This book makes recent developments in operator algebras accessible to the non specialist Bergen's Guide book to the local Marine board examinations William Culley Bergen, 1886 **Engineer's Guide to the Naval and Local Marine Boards, etc** Dugald THOMSON, 1870

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**Guide** ,1889     A Local Guide and Directory for the Town of High Wycombe and Its Neighbourhood, Etc. [With Plates and a Map.] ,1875     Subject Guide to Books in Print ,1992     **Parliamentary Debates (Hansard)**. Great Britain. Parliament. House of Commons,2010     *Bibliographic Guide to Conference Publications* New York Public Library. Research Libraries,1976 Vols for 1975 include publications cataloged by the Research Libraries of the New York Public Library with additional entries from the Library of Congress MARC tapes     **Guide to Reprints** Albert James Diaz,1980     The Asian Journal of Public Administration ,2003

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In a digital era where connections and knowledge reign supreme, the enchanting power of language has become much more apparent than ever. Its power to stir emotions, provoke thought, and instigate transformation is truly remarkable. This extraordinary book, aptly titled "**Locally Compact Guidelines**," compiled by a very acclaimed author, immerses readers in a captivating exploration of the significance of language and its profound effect on our existence. Throughout this critique, we will delve into the book's central themes, evaluate its unique writing style, and assess its overall influence on its readership.

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