

# **Forcing Isomorphisms Between Dense Sets Of Reals: A Classic Result Of Modern Set Theory**

**By Michael H. Vartanian**

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### **CiteSeerX Citation Query Almost-disjoint sets, -**

the dense set problem and the partition calculus. Documents; Authors; all isomorphism types of countable dense subsets of  $\mathbb{R}$  form Since a forcing as ours

<http://citeseerx.ist.psu.edu/showciting?cid=336254>

### **elementary set theory - Showing any countable, -**

Showing any countable, dense, linear you can do even better, ie you can in a similar way build an isomorphism between note that the existence of the dense set

<http://math.stackexchange.com/questions/37151/showing-any-countable-dense-linear-ordering-is-isomorphic-to-a-subset-of-mat>

### **What is forcing? | Giorgio Venturi - Academia.edu -**

Giorgio Venturi (SNS) What is forcing? 13 / 30 Density arguments to the operation of defining arbitrary sets. Giorgio Venturi (SNS) What is forcing? 30

[http://www.academia.edu/4703420/What\\_is\\_forcing](http://www.academia.edu/4703420/What_is_forcing)

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### **geometricgraphs bonatojanssen Aug4 2014 -**

isomorphism between graphs with vertex set  $V$ . random dense set, geometricgraphs\_bonatojanssen\_Aug4\_2014.dvi

[http://www.math.ryerson.ca/~abonato/papers/geometricgraphs\\_bonatojanssen\\_Aug4\\_2014.pdf](http://www.math.ryerson.ca/~abonato/papers/geometricgraphs_bonatojanssen_Aug4_2014.pdf)

### **An Iterated Forcing Extension In Which All Aleph-1 -**

Vartanian, Michael Haig, "An Iterated Forcing Extension In Which a famous result of Cantor says that in every model of set theory all  $\aleph_0$ -dense sets of reals are

[http://scholarworks.sjsu.edu/cgi/viewcontent.cgi?article=4830&context=etd\\_theses](http://scholarworks.sjsu.edu/cgi/viewcontent.cgi?article=4830&context=etd_theses)

### **Forcing and Differentiable Functions -**

and differentiable isomorphisms between  $\aleph_1$ -dense sets of the proper forcing axiom. In: Handbook of Set uncountable dense sets of reals onto

<http://link.springer.com/content/pdf/10.1007%2Fs11083-011-9210-8.pdf>

### **Supremum vs. maximum: - sets - ScienceDirect -**

It is easy to see that this notion of isomorphism between templates defines an equivalence It suffices to show that  $f$  is forced by a dense set of

<http://www.sciencedirect.com/science/article/pii/S0166864107000132>

### **A Limit on Relative Genericity THEODORE A. SLAMAN -**

A Limit on Relative Genericity enumerable set. Cohen forcing in the context of recursively meet dense sets that are not accessible relative to an

<http://www.math.wisc.edu/~lempp/papers/deep.pdf>

## **Publications & Presentations | People | San Jose -**

BACK to Vartanian, Michael H. Courses; Publications "Forcing Isomorphisms Between Dense Sets A Classic Result of Modern Set Theory "" LAP Lambert Academic

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## **Linear operator - Encyclopedia of Mathematics -**

commutes for some topological isomorphism . For linear operators in Hilbert spaces The set of linear Fredholm operators but only on a dense

[http://www.encyclopediaofmath.org/index.php/Linear\\_operator](http://www.encyclopediaofmath.org/index.php/Linear_operator)

## **Frege s Context Principle and Reference to Natural -**

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## **Isomorphism - Wikipedia, the free encyclopedia -**

and there are categories in which each object admits an underlying set but in which isomorphisms need a bijective linear map is an isomorphism between

<http://en.wikipedia.org/wiki/Isomorphism>

## **1 Introduction -**

(resp. compact and nowhere dense) sets of reals having the closed forcing [9], Each isomorphism between nite substructures of  $X$  is called a nite

<http://www.mi.sanu.ac.rs/~borisa/posets.pdf>

## **Large Compact Separable Spaces May all Contain $\mathbb{N}$ -**

LARGE COMPACT SEPARABLE SPACES MAY ALL CONTAIN  $\mathbb{N}$  discrete dense set  $n$   $w$  and  $B$ , =  $l71(1)$   $n$   $wc$ . Since  $M$  contains (up to forcing isomorphism) all

<http://www.jstor.org/stable/2048389?origin=crossref>

## **Forcing and Differentiable Functions -**

and differentiable isomorphisms between 1-dense sets of reals. 1-dense sets of Applications of the proper forcing axiom, in Handbook of Set

[http://arxiv.org/pdf/0912.3733?origin=publication\\_detail](http://arxiv.org/pdf/0912.3733?origin=publication_detail)

## **CiteSeerX RESEARCH PLAN: SET THEORETIC -**

I use methods and concepts from set theory to solve problems involving All 1-dense sets of reals can be Perfect-set forcing for

<http://citeseerx.ist.psu.edu/viewdoc/summary?doi=10.1.1.90.332>

**www.cs.rice.edu -**

THE STRUCTURE OF THE QUASI ORDERED SETS OF  $\omega_1$ -DENSE REAL ORDER TYPES WITH THE EMBEDDABILITY RELATION Dror Fried Thesis submitted in partial fulfillment of the

<http://www.cs.rice.edu/~friedd/Files/MSc-Thesis-Dror-Fried.pdf>

**set theory - Definable map from all the ordinals -**

$\aleph_{\omega_1}$ , the surreal numbers.  $\mathbb{R}$  admits countable dense sets (definable) map from all the ordinals and this forcing extension adds no new sets,

<http://mathoverflow.net/questions/93468/definable-map-from-all-the-ordinals-to-the-surreal-numbers-with-a-dense-image>

**set theory - Similarities between Post's Problem -**

Can someone who specializes in Set Theory or Mathematical Logic comment on the similarities between dense sets of  $\mathbb{R}$ ; so few that between forcing

<http://mathoverflow.net/questions/124011/similarities-between-posts-problem-and-cohen-forcing>

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<http://www.amazon.co.jp/Forcing-Isomorphisms-Between-Dense-Reals/dp/3846528897>

**Isomorphisms between de Morgan triplets - -**

An isomorphism between two De Morgan triplets  $(F, G, n)$ ,  $(F', G', n')$  is a bijection  $\sim$  from  $F$  to  $F'$  which implies that  $n$  is an isolated point in the dense set  $P$ .

<http://www.sciencedirect.com/science/article/pii/0165011489901760>

**Adrian Johnston - Adventures in -**

Chapter 5 at a Theory Reading Group conference at Cornell and my sets of parents then mutually mirroring isomorphisms between the logics of the

<https://www.scribd.com/doc/273135355/A-d-r-i-a-n-J-o-h-n-s-t-o-n-Adventures-in-Transcendental-Materialism>

**The Meaning of Force - The Physics Classroom -**

Problem Sets; Habits of an Effective Problem Solver; Whenever there is an interaction between two objects, there is a force upon each of the objects.

<http://www.physicsclassroom.com/class/newtlaws/Lesson-2/The-Meaning-of-Force>

**Force - Wikipedia, the free encyclopedia -**

Resolving force vectors into components of a set of basis vectors is often a objects of constant density force acting between the

<https://en.m.wikipedia.org/wiki/Force>

**Isomorphisms of Finite Type II Rings of Operators -**

ISOMORPHISMS OF FINITE TYPE II RINGS sets up a lattice isomorphism between  $L$  and the set of is everywhere dense. Suppose  $A_0$  is a clopen, nonempty set disjoint

<http://www.jstor.org/stable/info/1970018>

### **Collecting things that are preserved by (isometric -**

then a continuous bijective map whose inverse is also continuous is called an isomorphism between them. If this isomorphism is on dense sets, linear

<http://math.stackexchange.com/questions/637504/collecting-things-that-are-preserved-by-isometric-isomorphisms-between-normed>

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<http://www.amazon.co.uk/Michael-H-Vartanian/e/B00J9U71QI>

### **Hereditary Set 13 - Scribd - Read Unlimited Books -**

Hereditary set 13. From Wikipedia, the The ideal of asymptotically zero-density sets on the natural numbers, Forcing adjoins to some given model of set

<https://www.scribd.com/doc/271818576/Hereditary-Set-13>

### **Uncountable homogeneity in -**

extend this to an order isomorphism  $f : \mathbb{R} \rightarrow \mathbb{R}$  with  $f(P \cap I) = P \cap J$ . Such is necessarily a homeomorphism. 1 non-isomorphic dense totally ordered sets without

<http://www.drmaciver.com/docs/homogeneity.pdf>

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<http://www.amazon.fr/Michael-H.-Vartanian/e/B00J9U71QI>

### **Forcing (mathematics) - Wikipedia, the free -**

Descriptive set theory uses the notion of forcing from both recursion theory and set theory.

Forcing has also in forcing is that for most purposes, dense sets and

[http://en.wikipedia.org/wiki/Forcing\\_\(mathematics\)](http://en.wikipedia.org/wiki/Forcing_(mathematics))

### **Games played on partial isomorphisms -**

, has a  $\delta_1$ -closed dense set.  $\Rightarrow y$  and  $f$  is forced to be an isomorphism, forcing with  $P$  below  $p_{x,y}$  introduces a perfect matching in the graph  $G_{x,y} = (S_x, S_y, E_{x,y})$ .

<http://link.springer.com/content/pdf/10.1007/s00153-003-0171-5.pdf>

### **Math:Res:Lett: 13 00, 10001{100NN -**

Math:Res:Lett:13 (2006), no: 00, 10001 dense sets was consistent with continuum larger than  $\aleph_2$  Forcing axioms and stationary sets, Adv. Math. 94, No.2, 256

[http://www.math.uni-hamburg.de/home/geschke/papers/mbt8\\_MRL.pdf](http://www.math.uni-hamburg.de/home/geschke/papers/mbt8_MRL.pdf)

### **Proceedings of the American Mathematical Society -**

there exists an isomorphism between and a subgroup Forcing hereditarily separable, homomorphism, potentially dense set, dense subset, precompact

<http://www.ams.org/jourcgi/jour-getitem?pii=S0002-9939-10-10302-5>

## **Mathematical Logic ABC -**

1.2 In set theory A major part of modern set theory involves the conditional IF-THEN GOTOs can result in type theory). J rgen-Michael

<https://www.scribd.com/doc/273124011/Mathematical-Logic-ABC>