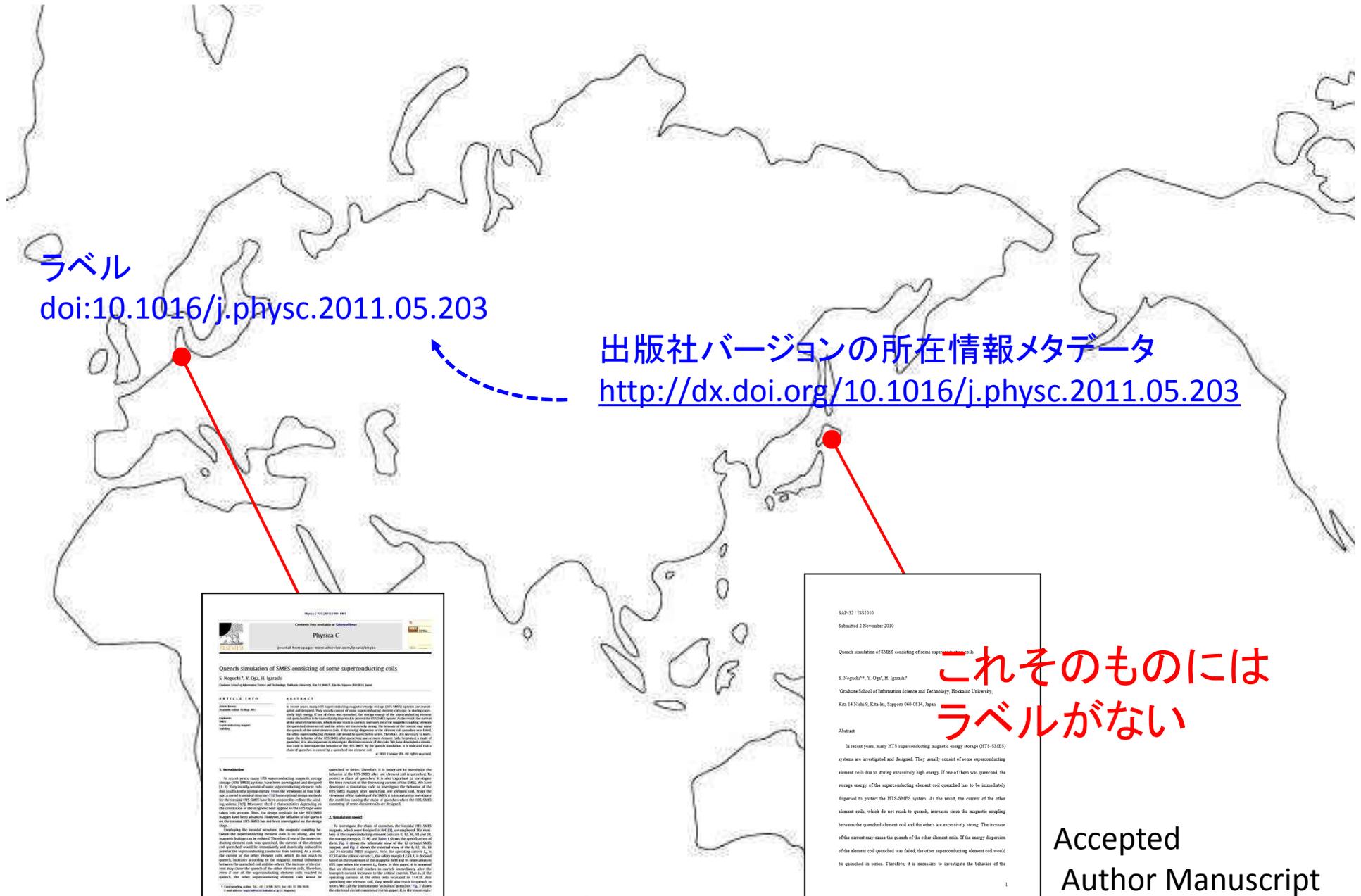


# 機関リポジトリの文献識別子

杉田茂樹(千葉大学附属図書館)



ラベル

doi:10.1016/j.physc.2011.05.203

出版バージョンの所在情報メタデータ

<http://dx.doi.org/10.1016/j.physc.2011.05.203>

Physics C  
Contents lists available at ScienceDirect  
Physica C  
Journal homepage: www.elsevier.com/locate/physc

Quench simulation of SMES consisting of some superconducting coils  
S. Noguchi\*, Y. Ogi, H. Igarashi  
\*Graduate School of Information Science and Technology, Hokkaido University, 14-1, Gakko-3, Sapporo 060-0814, Japan

ARTICLE INFO  
Article history:  
Received 15 October 2010  
Received in revised form 12 November 2010  
Accepted 12 November 2010  
Available online 15 November 2010

ABSTRACT  
In recent years, many HTS superconducting magnetic storage (HTS-SMES) systems are proposed and designed. These systems consist of some superconducting element coils and a quench protection coil (QPC) which is used to protect the superconducting element coils from the quench. In this paper, we investigate the quench behavior of the HTS-SMES system consisting of some superconducting element coils and a QPC. We develop a simulation code to investigate the behavior of the HTS-SMES system after quenching. The simulation results show that the quench current of the HTS-SMES system is affected by the quench current of the QPC. The quench current of the HTS-SMES system is increased by the quench current of the QPC. The quench current of the HTS-SMES system is decreased by the quench current of the QPC. The quench current of the HTS-SMES system is affected by the quench current of the QPC. The quench current of the HTS-SMES system is increased by the quench current of the QPC. The quench current of the HTS-SMES system is decreased by the quench current of the QPC.

© 2011 Elsevier B.V. All rights reserved.

Version of Record

SAP-32 / ISB2010  
Submitted 2 November 2010

Quench simulation of SMES consisting of some superconducting coils  
S. Noguchi\*, Y. Ogi, H. Igarashi  
\*Graduate School of Information Science and Technology, Hokkaido University,  
Kita 14 Nishi 9, Kita-ku, Sapporo 060-0814, Japan

Abstract  
In recent years, many HTS superconducting magnetic storage (HTS-SMES) systems are investigated and designed. They usually consist of some superconducting element coils due to storing excessively high energy. If one of them is quenched, the stored energy of the superconducting element coil quenched has to be immediately dispersed to protect the HTS-SMES system. As the result, the current of the other element coils, which do not reach to quench, increases since the magnetic coupling between the quenched element coil and the others are excessively strong. The increase of the current may cause the quench of the other element coils. If the energy dispersion of the element coil quenched was failed, the other superconducting element coil would be quenched in series. Therefore, it is necessary to investigate the behavior of the

これそのものにはラベルがない

Accepted Author Manuscript



# ラベルを設けることによって

- 機関リポジトリ上の各種コンテンツの、インターネット上での定位
- ジャーナル掲載論文とその著者稿
  - 両者の性質・関係性の情報組織化・明解化
    - 「AはBの出版バージョン(VoR)である」
    - 「BはAの著者稿(オープンアクセス版)である」
  - 文献データベース内で相互参照を容易に
    - Science Direct契約機関の研究者をAに誘導
    - Science Direct非契約機関の研究者をBに誘導

# 現状

- OAI-Identifier
  - OAI-PMHのプロトコル仕様で定義
  - メタデータハーベスティング時においてレコード識別に機能
- CNRI Handle
  - DSpace (リポジトリ構築用ソフトウェア)のみが実装
  - CNRIとの直接契約で各大学がprefixを取得

```
-<OAI-PMH xsi:schemaLocation="http://www.op
  <responseDate>2014-08-19T08:53:09Z</respc
  <request verb="GetRecord" metadataPrefix:
    /oai2.0</request>
-<GetRecord>
  -<record>
    -<header>
      <identifier>oai:mitizane.ll.chiba-u.jp:00020
      <datestamp>2007-04-18T04:44:01Z</da
      <setSpec>setA</setSpec>
    </header>
  -<metadata>
    -<oai_dc:dc xsi:schemaLocation="http://
      <dc:title>怪化百物語</dc:title>
      <dc:title>カйкаヒャク モノガタリ</dc:t
      <dc:title>Kaika hyaku monogatari</dc
      <dc:creator>高木, 元</dc:creator>
      <dc:creator>タカギ, ゲン</dc:creato
      <dc:creator>Takagi, Gen</dc:creato
      <dc:subject>NDC:913.5</dc:subject>
      <dc:description>『怪化百物語』(高島)
      <dc:description>新日本古典文学大系
      <dc:publisher>岩波書店</dc:publish
      <dc:contributor>高木, 元</dc:contri
      <dc:contributor>タカギ, ゲン</dc:cor
      <dc:contributor>Takagi, Gen</dc:cor
```

# コロンビア大学リポジトリ

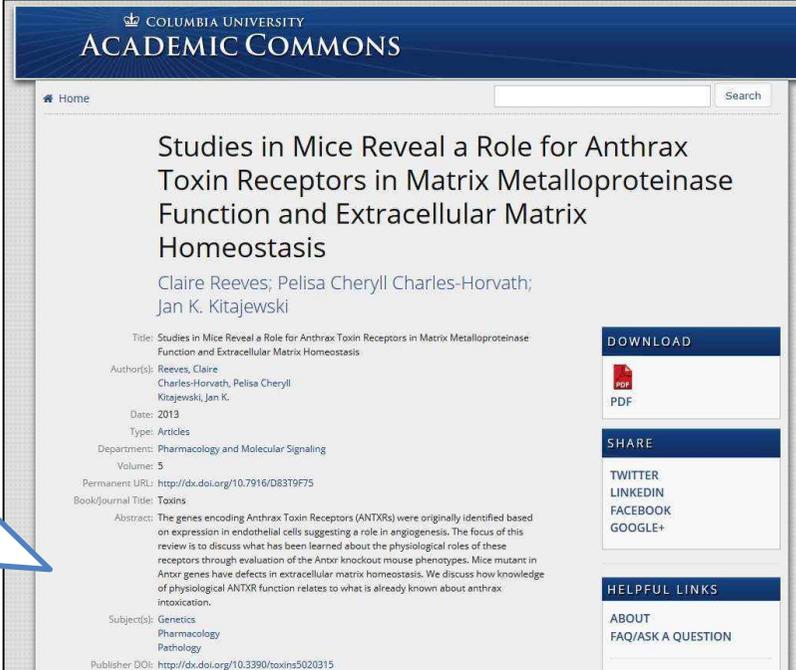
- DataCite 10.7916=CDL.CULIS  
(California Digital Library - Columbia University  
Libraries/Information Services (CUL/IS) )

Permanent URL:

<http://dx.doi.org/10.7916/D83T9F75>

Publisher DOI:

<http://dx.doi.org/10.3390/toxins5020315>



The screenshot shows the 'ACADEMIC COMMONS' page for Columbia University. The article title is 'Studies in Mice Reveal a Role for Anthrax Toxin Receptors in Matrix Metalloproteinase Function and Extracellular Matrix Homeostasis'. The authors listed are Claire Reeves, Pelisa Cheryl Charles-Horvath, and Jan K. Kitajewski. The page includes a 'DOWNLOAD' section with a PDF icon, a 'SHARE' section with social media links for Twitter, LinkedIn, Facebook, and Google+, and a 'HELPFUL LINKS' section with 'ABOUT', 'FAQ/ASK A QUESTION', and 'BROWSE DEPARTMENTS' options. The article's DOI is 10.7916/D83T9F75 and the publisher's DOI is 10.3390/toxins5020315.

