
# CAUL Achievement Award, 2016

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17 March 2016

# Publisher Relationships

- Royal Society of Chemistry
- Springer
- Others

# Royal Soc Chem and “Gold for Gold”

- Nearly 50% of UoM papers available as Gold OA
- High proportion are ARC/NHMRC funded papers
- Working with RSC to simplify workflows for library and author

- Springer agreement
  - All UoM-authored AAMs, 2012-16
  - 100% coverage
  - Why?
  - How?
  - Costs?

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# Green OA in Australia

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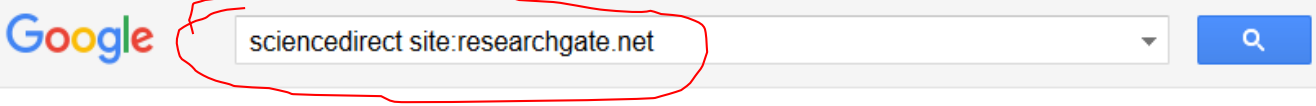
|---|---|---|---|---|---|---|
| **2016** | 237 | 1,005 | **24%** | 448 | 1,808 | **25%** |
| **2015** | 1,425 | 6,882 | **21%** | 2,985 | 11,825 | **25%** |
| **2014** | 1,721 | 6,439 | **27%** | 2,317 | 10,342 | **22%** |
| **2013** | 1,686 | 6,254 | **27%** | 1,685 | 9,619 | **18%** |

- **ResearchGate**
- Academia.edu
- Mendeley

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... Infectious Diseases Department, Clínica de Marly, Bogotá, Colombia ⁎ Corresponding author. E-mail address: afaccini@gmail.com (Á.A. Faccini-Martínez) 7 January 2016 Available online at www.**sciencedirect**.com **ScienceDirect**
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Original Article

# 'Empty sella' on routine MRI studies: An incidental finding or otherwise?

Col Jyotindu Debnath [a,*], Brig R. Ravikumar [b], Brig Vivek Sharma [c], Maj K.P.S. Senger [d], Col Vinay Maurya [e], Col Giriraj Singh [f], Col Pankaj Sharma [e], Lt Col A. Khera [g], Ankita Singh [h]

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# Scholarly Comms Networks

- RG – single largest source of OA fulltext downloads in Google Scholar
- RG – accounts for >70% of illegal papers made publicly available
- No attempt made to ensure compliance

# Publisher Agreements Revisited

- CHORUS and CHOR-AUS?

Title **Two-band description of resonant superfluidity in atomic Fermi gases**

Author(s) He, Lianyi; Hu, Hui; Liu, Xia-Ji

Abstract Fermionic superfluidity in atomic Fermi gases across a Feshbach resonance is normally described by the atom-molecule theory, which treats the closed channel as a noninteracting point boson. In this work we present a theoretical description of the resonant superfluidity in analogy to the two-band superconductors. We employ the underlying two-channel scattering model of Feshbach resonance where the closed channel is treated as a composite boson with binding energy ε 0 and the resonance is triggered by the microscopic interchannel coupling U 12 . The binding energy ε 0 naturally serves as an energy scale of the system, which has been sent to infinity in the atom-molecule theory. We show that the atom-molecule theory can be viewed as a leading-order low-energy effective theory of the underlying fermionic theory in the limit ε 0 →∞ and U 12 →0 , while keeping the phenomenological atom-molecule coupling finite. The resulting two-band description of the superfluid state is in analogy to the BCS theory of two-band superconductors. In the dilute limit ε 0 →∞ , the two-band description recovers precisely the atom-molecule theory. The two-band theory provides a natural approach to study the corrections because of a finite binding energy ε 0 in realistic experimental systems. For broad and moderate resonances, the correction is not important for current experimental densities. However, for extremely narrow resonance, we find that the correction becomes significant. The finite binding energy correction could be important for the stability of homogeneous polarized superfluid against phase separation in imbalanced Fermi gases across a narrow Feshbach resonance.

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http://purl.org/au-research/grants/ARC/FT130100815

# Two-band description of resonant superfluidity in atomic Fermi gases

Lianyi He, Hui Hu, and Xia-Ji Liu
Phys. Rev. A **91**, 023622 – Published 23 February 2015



## ABSTRACT

Fermionic superfluidity in atomic Fermi gases across a Feshbach resonance is normally described by the atom-molecule theory, which treats the closed channel as a noninteracting point boson. In this work we present a theoretical description of the resonant superfluidity in analogy to the two-band superconductors. We employ the underlying two-channel scattering model of Feshbach resonance where the closed channel is treated as a composite boson with binding energy $\varepsilon_0$ and the resonance is triggered by the microscopic interchannel coupling $U_{12}$. The binding energy $\varepsilon_0$ naturally serves as an energy scale of the system, which has been sent to infinity in the atom-molecule theory. We show that the atom-molecule theory can be viewed as a leading-order low-energy effective theory of the underlying fermionic theory in the limit $\varepsilon_0 \to \infty$ and $U_{12} \to 0$, while keeping the phenomenological atom-molecule coupling finite. The resulting two-band description of the superfluid state is in analogy to the BCS theory of two-band superconductors. In the dilute limit $\varepsilon_0 \to \infty$, the two-band description recovers precisely the atom-molecule theory. The two-band theory provides a natural approach to study the corrections because of a finite binding energy $\varepsilon_0$ in realistic experimental systems. For broad and moderate resonances, the correction is not important for current experimental densities. However, for extremely narrow resonance, we find that the correction becomes significant. The finite binding energy correction could be important for the stability of homogeneous polarized superfluid against phase separation in imbalanced Fermi gases across a narrow Feshbach resonance.

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# Two-band description of resonant superfluidity in atomic Fermi gases

FULL TEXT

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# Concluding Remarks

- Gold OA
  - SCOAP3, Springer Compact, Flipped Business Models
- Green OA
  - Funders, institutions want 100% compliance - how best to get there? *Publisher participation seems to offer the quickest, least problematic route.*
  - Funders, institutions want unambiguous, liberal licence regime for AAMs. *Publishers are offering CTA conditions.*
  - Funders, institutions want short, uniform embargo periods. *Publishers want longer, variable periods.*
  - Funders want to use OA repositories to service public access. *[Big] publishers want to use publisher platforms.*
  - Publishers, Institutions share[?] concern over SCNs - *explore as basis for beter approach to Green OA*