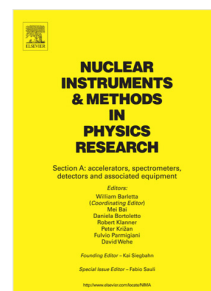


## Accepted Manuscript

A beam optics study of a modular multi-source X-ray tube for novel computed tomography applications

Brandon J. Walker, Jeff Radtke, Guang-Hong Chen, Kevin W. Eliceiri, Thomas R. Mackie



PII: S0168-9002(17)30688-5  
DOI: <http://dx.doi.org/10.1016/j.nima.2017.06.035>  
Reference: NIMA 59926

To appear in: *Nuclear Inst. and Methods in Physics Research, A*

Received date: 7 January 2017  
Revised date: 6 June 2017  
Accepted date: 21 June 2017

Please cite this article as: B.J. Walker, J. Radtke, G. Chen, K.W. Eliceiri, T.R. Mackie, A beam optics study of a modular multi-source X-ray tube for novel computed tomography applications, *Nuclear Inst. and Methods in Physics Research, A* (2017), <http://dx.doi.org/10.1016/j.nima.2017.06.035>

This is a PDF file of an unedited manuscript that has been accepted for publication. As a service to our customers we are providing this early version of the manuscript. The manuscript will undergo copyediting, typesetting, and review of the resulting proof before it is published in its final form. Please note that during the production process errors may be discovered which could affect the content, and all legal disclaimers that apply to the journal pertain.

## 1 TITLE PAGE

2 **Title:**

3 A Beam Optics Study of A Modular Multi-Source X-ray Tube for Novel Computed Tomography  
4 Applications

5 **Authors:**

6 Brandon J. Walker,<sup>a,b</sup> ([bwalker4@wisc.edu](mailto:bwalker4@wisc.edu))

7 Jeff Radtke,<sup>a</sup> ([jradtke3@wisc.edu](mailto:jradtke3@wisc.edu))

8 Guang-Hong Chen,<sup>a,c</sup> ([gchen7@wisc.edu](mailto:gchen7@wisc.edu))

9 Kevin W. Eliceiri,<sup>a,b,d</sup> ([eliceiri@wisc.edu](mailto:eliceiri@wisc.edu))

10 Thomas R. Mackie<sup>a,b</sup> ([trmackie@wisc.edu](mailto:trmackie@wisc.edu))

11 <sup>a</sup>*Department of Medical Physics, University of Wisconsin, 1111 Highland Ave., Madison, WI*  
12 *53705, USA*

13 <sup>b</sup>*Morgridge Institute for Research, 330 N. Orchard St., Madison, WI 53715, USA*

14 <sup>c</sup>*Department of Radiology, University of Wisconsin, 600 Highland Ave., Madison, WI 53792,*  
15 *USA*

16 <sup>d</sup>*Laboratory for Optical and Computational Instrumentation, University of Wisconsin, 1675*  
17 *Observatory Dr., Madison, WI 53706, USA*

18 **Primary corresponding author:**

19 Brandon J. Walker  
20 Medical Engineering  
21 Morgridge Institute for Research  
22 330 N. Orchard St., Madison, WI 53715, USA  
23 Phone: 608-316-4671  
24 Email: [bwalker4@wisc.edu](mailto:bwalker4@wisc.edu)

25 **Co-corresponding author:**

26 Kevin Eliceiri, PhD  
27 Medical Engineering  
28 Morgridge Institute for Research  
29 330 N. Orchard St., Madison, WI 53715, USA  
30 Phone: 608-263-6288  
31 Email: [eliceiri@wisc.edu](mailto:eliceiri@wisc.edu)

32

33

34

35

Download English Version:

<https://daneshyari.com/en/article/5492771>

Download Persian Version:

<https://daneshyari.com/article/5492771>

[Daneshyari.com](https://daneshyari.com)