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| Astrophysics > Cosmology and Extragalactic Astrophysics Discovery and Follow-up of a Nearby Galaxy from the Arecibe Zone of Avoidance Survey Travis McIntyre, Robert F. Minchin, Emmanuel Momjian, Pat Henning, Amanpreet Kaur, Brian Parton (Submitted on 21 Jul 2011) | | | Download: |
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| The Arecibo L-Band Feed Array Zone of Avoidance (ALFA ZOA) Survey has discovered a nearby galaxy, ALFA ZOA J1952+1428, at a heliocentric velocity of +279 km s-1. The galaxy was discovered at low Galactic latitude by 21-cm emission from neutral hydrogen (Hi). We have obtained follow-up observations with the EVLA and the 0.9-m SARA optical telescope. The Hi distribution overlaps an uncataloged, potential optical counterpart. The Hi linear size is 1.4 kpc at our adopted distance of D = 7 Mpc, but the distance | | vey has c velocity y 21-cm | References & Citations INSPIRE HEP (refers to cited by) NASA ADS |
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| estimate is velocities. These cha at 7 Mpc, i uncertain observatio scheduled | The optical counterpart has mB = 16.9 mag and B - R = 0. aracteristics, including MHI = 107.0 M\odot and LB = 107.5 I indicate that this galaxy is a blue compact dwarf, but this re- until further follow-up observations are complete. Optical fo- ons are ongoing and near infrared follow-up observations h. | 1 mag. L\odot, if mains Ilow-up ave been | |
| Comments: | 4 pages, 3 figures, compiled with emulateapj, accept in special edition on early science with the EVLA | ted by ApJL | |
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