

A DISCUSSION ON INTERFERENTIAL FACTORS AND EXCLUDING METHODS
IN REMOTE MEASUREMENT OF RADON IN XIWUDANG SPRING, GANSU

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Abstract: The interferential factors which influence quality of data and excluding methods in remote measurement of radon in Xiwudang spring are studied by prectical observation and a series of tests. It is found that the electricity supply system has main influence on stability of observation instrument. That installation of separation gas is normal or not is another factor influencing quality of observation data of radon. Increase of power of electricity supply system and heat preservation for installation of separation gas are effective methods guaranteeing observation data quality of radon in the spring.

Key words: Gansu; Xiwudang spring; Remote measurement of radon in groundwater; Interferential factor; Excluding method

2001 年 7 月 11 日甘肃镜铁山 5.4 级地震震源机制解

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关键词: 甘肃; 镜铁山; 震源机制

2001 年 7 月 11 日 05 时 41 分 3.8 秒, 甘肃省镜铁山发生了 $M_s5.4$ 地震. 经甘肃省地震监测台网测定, 该次地震震中位于 39.2° N, 98.0° E 震源深度 10 km. 作者收集了甘肃及青海地区共 26 个地震台站的 P 波初动资料, 求出了该次地震的震源机制解, 见表 1 和图 1.

表 1 2001 年镜铁山 $M_s5.4$ 地震震源机制解

节面参数	A 节面	B 节面	应力轴参数	P 轴	B 轴	T 轴
倾向	220°	130°	方位角	265°	210°	175°
倾角	86°	82°	仰角	90°	0°	90°

* 矛盾比: 0.086

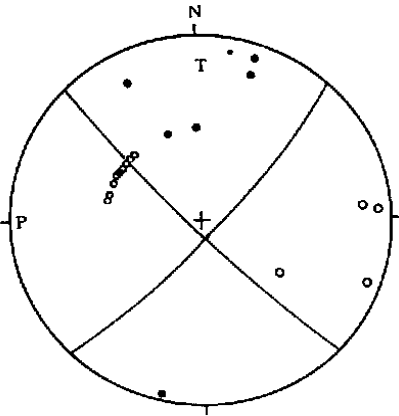


图 1 2001 年 7 月 11 日甘肃镜铁山 5.4 级地震震源机制解
Fig. 1 Focal mechanism of the Jingtieshan $M_s5.4$ earthquake in Gansu province on July 11, 2001.

FOCAL MECHANISM OF THE JINGTIESHAN $M_s5.4$
EARTHQUAKE IN GANSU PROVINCE ON JULY 11, 2001

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Key words: Gansu; Jingtieshan; Focal mechanism