

附件：刘松楠等. 大陆裂谷的构造反转与陆内造山：以松潘-甘孜构造带为例. 地质学报, doi: 10.19762/j.cnki.dizhixuebao.2024477.

附表 1 松潘-甘孜构造带内基性岩锆石 U-Pb 同位素年龄

Appendix 1 U-Pb isotope age of the mafic rocks in the Songpan-Ganzi tectonic belt

样品号	元素含量($\times 10^{-6}$)			Th/U	同位素比值						同位素年龄(Ma)						谐和度
	Pb	Th	U		$^{207}\text{Pb}/^{235}\text{U}$	2 σ	$^{206}\text{Pb}/^{238}\text{U}$	2 σ	$^{207}\text{Pb}/^{206}\text{Pb}$	2 σ	$^{207}\text{Pb}/^{235}\text{U}$	2 σ	$^{206}\text{Pb}/^{238}\text{U}$	2 σ	$^{207}\text{Pb}/^{206}\text{Pb}$	2 σ	
YN-920-01	106.5	638.4	1165.6	0.55	0.5226	0.0158	0.0666	0.0017	0.0567	0.0009	426.9	10.5	415.7	10.5	479.7	37.0	97%
YN-920-02	105.8	1011.7	1035.8	0.98	0.5201	0.0147	0.0677	0.0017	0.0556	0.0008	425.2	9.8	422.1	10.1	435.2	-0.9	99%
YN-920-03	101.5	1236.5	931.2	1.33	0.5249	0.0165	0.0694	0.0021	0.0549	0.0008	428.4	11.0	432.3	12.5	405.6	33.3	99%
YN-920-04	25.1	192.1	255.2	0.75	0.5317	0.0172	0.0673	0.0018	0.0573	0.0013	433.0	11.4	420.0	10.9	501.9	50.0	96%
YN-920-05	50.2	444.3	528.3	0.84	0.5425	0.0216	0.0693	0.0024	0.0566	0.0010	440.1	14.2	432.1	14.3	476.0	43.5	98%
YN-920-06	87.2	1031.4	837.9	1.23	0.5108	0.0131	0.0664	0.0015	0.0557	0.0008	419.0	8.8	414.1	8.9	438.9	33.3	98%
YN-920-07	17.0	96.6	162.5	0.59	0.5777	0.0167	0.0718	0.0015	0.0586	0.0016	463.0	10.7	447.3	8.8	550.0	61.1	96%
YN-920-08	27.6	159.0	303.9	0.52	0.5132	0.0155	0.0662	0.0014	0.0561	0.0013	420.6	10.4	413.4	8.4	457.5	21.3	98%
YN-920-09	6.5	8.1	76.2	0.11	0.5544	0.0266	0.0706	0.0019	0.0569	0.0023	447.9	17.4	439.9	11.2	487.1	90.7	98%
YN-920-10	57.1	454.2	594.5	0.76	0.5612	0.0206	0.0689	0.0019	0.0586	0.0012	452.3	13.4	429.3	11.4	553.7	44.4	94%
YN-920-11	43.2	298.5	447.6	0.67	0.5066	0.0172	0.0642	0.0019	0.0573	0.0013	416.1	11.6	400.9	11.7	505.6	50.0	96%
YN-920-12	75.0	677.4	747.7	0.91	0.4944	0.0152	0.0635	0.0017	0.0563	0.0011	407.9	10.3	397.2	10.3	464.9	44.4	97%
YN-920-13	66.6	687.2	655.0	1.05	0.5267	0.0175	0.0666	0.0018	0.0569	0.0010	429.6	11.6	415.6	10.7	500.0	38.9	96%
YN-920-14	29.1	93.0	356.9	0.26	0.5484	0.0239	0.0731	0.0023	0.0545	0.0018	444.0	15.7	455.0	13.8	394.5	72.2	97%
YN-920-15	13.1	52.5	154.0	0.34	0.5209	0.0176	0.0657	0.0016	0.0577	0.0017	425.7	11.8	410.2	10.0	516.7	69.4	96%
YN-920-16	23.2	148.8	250.6	0.59	0.4850	0.0138	0.0626	0.0015	0.0563	0.0015	401.5	9.4	391.6	8.9	464.9	57.4	97%
YN-920-17	37.3	295.8	385.5	0.77	0.5197	0.0161	0.0678	0.0020	0.0558	0.0012	424.9	10.8	423.2	12.2	442.6	52.8	99%
YN-920-18	18.8	98.6	209.3	0.47	0.5327	0.0149	0.0674	0.0015	0.0571	0.0012	433.6	9.8	420.6	9.0	498.2	46.3	96%
YN-920-19	34.4	350.1	378.3	0.93	0.5057	0.0353	0.0648	0.0036	0.0563	0.0020	415.5	23.8	404.6	22.1	464.9	79.6	97%
YN-920-20	50.8	450.4	538.2	0.84	0.5114	0.0177	0.0657	0.0017	0.0560	0.0011	419.4	11.9	410.0	10.5	453.8	42.6	97%

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YN-920-21	30.7	213.5	331.8	0.64	0.5797	0.0240	0.0780	0.0033	0.0540	0.0011	464.3	15.4	484.3	19.5	372.3	46.3	95%
YN-920-22	42.3	298.5	459.2	0.65	0.5265	0.0168	0.0682	0.0018	0.0556	0.0011	429.5	11.2	425.4	10.9	435.2	44.4	99%
YN-920-23	42.7	395.3	447.2	0.88	0.4741	0.0158	0.0611	0.0014	0.0557	0.0014	394.0	10.9	382.5	8.7	442.6	53.7	97%
YN-920-24	29.7	211.1	359.7	0.59	0.4529	0.0141	0.0588	0.0017	0.0557	0.0014	379.3	9.8	368.5	10.5	442.6	53.7	97%
YN-920-25	49.5	529.7	574.1	0.92	0.4208	0.0130	0.0556	0.0013	0.0545	0.0012	356.6	9.3	348.7	7.9	390.8	48.1	97%
YN-920-26	6.8	3.3	74.1	0.04	0.6019	0.0286	0.0759	0.0016	0.0580	0.0030	478.4	18.1	471.3	9.7	527.8	112.9	98%
YN-920-27	42.2	348.1	436.2	0.80	0.5051	0.0160	0.0685	0.0018	0.0532	0.0012	415.1	10.8	426.8	10.6	338.9	50.0	97%
YN-920-28	56.8	519.7	551.6	0.94	0.5538	0.0202	0.0703	0.0022	0.0566	0.0009	447.5	13.2	438.0	13.1	476.0	35.2	97%
YN-920-29	52.8	530.2	583.0	0.91	0.4477	0.0128	0.0590	0.0014	0.0548	0.0012	375.7	9.0	369.7	8.4	466.7	48.1	98%
YN-920-30	44.7	33.4	108.2	0.31	4.8394	0.1117	0.3201	0.0073	0.1093	0.0016	1791.8	19.4	1790.4	35.7	1788.6	27.6	99%
YN-920-31	89.8	1032.0	866.5	1.19	0.5187	0.0133	0.0675	0.0017	0.0556	0.0009	424.3	8.9	421.3	10.2	438.9	37.0	99%
YN-920-32	41.3	361.3	424.0	0.85	0.5408	0.0172	0.0721	0.0021	0.0542	0.0010	438.9	11.3	448.8	12.4	388.9	40.7	97%
YN-920-33	31.4	262.0	329.8	0.79	0.5426	0.0173	0.0702	0.0017	0.0558	0.0012	440.1	11.4	437.1	10.4	442.6	52.8	99%
YN-920-34	76.1	803.5	747.6	1.07	0.5129	0.0139	0.0667	0.0015	0.0555	0.0008	420.4	9.3	416.1	9.1	431.5	33.3	98%
YN-920-35	58.2	588.9	585.9	1.01	0.5933	0.0190	0.0738	0.0021	0.0582	0.0011	473.0	12.1	459.0	12.7	538.9	45.4	96%
YN-920-36	11.9	68.1	125.9	0.54	0.5174	0.0229	0.0717	0.0028	0.0531	0.0020	423.4	15.3	446.4	16.7	331.5	87.0	94%
YN-934-01	0.57	4.88	8.49	0.57	0.3877	0.0784	0.0513	0.0035	0.0703	0.0175	332.7	57.4	322.6	21.2	938.9	534.2	96%
YN-934-02	1.17	15.23	19.11	0.80	0.3245	0.0482	0.0465	0.0027	0.0522	0.0076	285.3	37.0	293.2	16.6	300.1	294.4	97%
YN-934-03	1.12	13.21	17.29	0.76	0.3657	0.0533	0.0474	0.0027	0.0637	0.0123	316.5	39.7	298.6	16.8	731.5	418.5	94%
YN-934-04	1.33	20.18	22.38	0.90	0.3661	0.0418	0.0450	0.0021	0.0601	0.0077	316.7	31.1	283.9	12.9	605.6	279.6	89%
YN-934-05	0.81	10.60	13.91	0.76	0.3541	0.0601	0.0457	0.0026	0.0561	0.0086	307.8	45.1	287.8	16.0	457.5	348.1	93%
YN-934-06	2.40	38.59	36.79	1.05	0.3538	0.0312	0.0458	0.0022	0.0577	0.0055	307.5	23.4	288.7	13.8	516.7	213.9	93%
YN-934-07	1.75	23.24	26.64	0.87	0.3341	0.0317	0.0488	0.0028	0.0520	0.0050	292.7	24.1	307.3	17.2	283.4	222.2	95%

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YN-934-08	1.11	17.12	19.84	0.86	0.3097	0.0755	0.0392	0.0029	0.0666	0.0189	274.0	58.6	248.0	18.1	827.8	620.3	90%
YN-934-09	0.63	6.61	10.43	0.63	0.3511	0.0586	0.0431	0.0025	0.0612	0.0096	305.5	44.0	272.1	15.6	655.6	309.1	88%
YN-934-10	0.95	11.36	14.23	0.80	0.2927	0.0696	0.0435	0.0019	0.0491	0.0125	260.7	54.7	274.4	11.9	153.8	507.3	94%
YN-934-11	0.80	7.54	13.50	0.56	0.3653	0.0569	0.0443	0.0027	0.0616	0.0099	316.2	42.4	279.5	16.9	661.1	348.9	87%
YN-934-12	1.60	23.04	24.60	0.94	0.3305	0.0337	0.0422	0.0017	0.0593	0.0071	289.9	25.7	266.4	10.3	576.0	261.1	91%
YN-934-13	0.95	11.79	15.30	0.77	0.3335	0.0424	0.0471	0.0028	0.0529	0.0062	292.3	32.3	296.8	17.1	324.1	270.3	98%
YN-934-14	1.68	18.26	26.42	0.69	0.3230	0.0325	0.0491	0.0027	0.0496	0.0050	284.2	25.0	309.0	16.6	176.0	218.5	91%
YN-934-15	0.69	5.75	8.67	0.66	0.3835	0.1055	0.0527	0.0041	0.0591	0.0165	329.6	77.6	330.9	25.1	568.6	515.7	99%
YN-934-16	1.30	17.24	22.07	0.78	0.3028	0.0357	0.0468	0.0027	0.0474	0.0048	268.5	27.9	294.6	16.4	77.9	216.6	90%
YN-934-17	1.58	21.89	24.64	0.89	0.3516	0.0591	0.0469	0.0020	0.0556	0.0097	305.9	44.4	295.2	12.3	435.2	348.1	96%
YN-934-18	1.05	14.87	18.46	0.81	0.3222	0.0499	0.0449	0.0025	0.0516	0.0078	283.6	38.4	282.9	15.3	333.4	250.0	99%
YN-934-19	11.50	195.15	166.22	1.17	0.3679	0.0247	0.0457	0.0012	0.0584	0.0039	318.1	18.3	287.9	7.4	546.3	146.3	90%
YN-934-20	1.14	16.12	22.67	0.71	0.3518	0.0701	0.0355	0.0025	0.0807	0.0207	306.1	52.7	224.7	15.7	1213.9	519.4	69%
YN-934-21	1.18	12.37	17.61	0.70	0.4496	0.0579	0.0458	0.0031	0.0730	0.0094	377.0	40.6	288.6	18.9	1016.7	264.8	73%
YN-934-22	1.23	11.47	19.13	0.60	0.3183	0.0748	0.0436	0.0025	0.0534	0.0138	280.6	57.7	275.2	15.1	346.4	509.2	98%
YN-934-23	0.79	9.21	12.65	0.73	0.3264	0.0399	0.0484	0.0034	0.0539	0.0079	286.8	30.5	304.8	20.6	368.6	166.6	93%
YN-934-24	1.75	27.49	26.56	1.03	0.3446	0.0343	0.0454	0.0023	0.0578	0.0064	300.7	25.9	286.5	14.3	524.1	244.4	95%
YN-934-25	0.55	4.65	9.09	0.51	0.3030	0.0907	0.0368	0.0019	0.0552	0.0161	268.8	70.8	233.2	11.9	420.4	548.1	85%
YN-934-26	1.56	24.85	23.73	1.05	0.3679	0.0488	0.0486	0.0022	0.0538	0.0060	318.1	36.3	305.7	13.8	364.9	255.5	96%
YN-934-27	0.86	12.92	13.37	0.97	0.3705	0.0536	0.0471	0.0033	0.0602	0.0105	320.0	39.8	296.5	20.2	609.3	379.4	92%
YN-934-28	1.41	19.00	22.63	0.84	0.3212	0.0290	0.0490	0.0023	0.0495	0.0045	282.8	22.3	308.2	14.2	172.3	200.0	91%
YN-934-29	1.75	19.69	28.31	0.70	0.3622	0.0283	0.0478	0.0018	0.0558	0.0044	313.8	21.1	301.3	11.1	442.6	177.8	95%
YN-934-30	6.42	122.04	94.37	1.29	0.3351	0.0235	0.0450	0.0016	0.0535	0.0030	293.4	17.9	284.0	9.6	346.4	130.5	96%
YN-934-31	0.94	9.50	16.36	0.58	0.2818	0.0457	0.0435	0.0033	0.0484	0.0068	252.0	36.2	274.2	20.6	120.5	300.0	91%

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YN-934-32	1.60	22.58	24.22	0.93	0.3792	0.0350	0.0479	0.0020	0.0607	0.0060	326.5	25.8	301.4	12.2	627.8	180.5	92%
YN-934-33	0.92	10.98	13.56	0.81	0.3779	0.0552	0.0555	0.0040	0.0559	0.0101	325.5	40.7	348.3	24.5	450.0	359.2	93%
YN-934-34	2.13	21.30	34.24	0.62	0.3752	0.0459	0.0528	0.0026	0.0518	0.0055	323.5	33.9	331.6	16.0	276.0	244.4	97%
YN-934-35	1.76	31.92	24.90	1.28	0.3295	0.0360	0.0434	0.0021	0.0593	0.0086	289.2	27.5	273.8	13.1	588.9	318.5	94%