Lens spaces: $L_{11,1}$ $L_{19,2}$ $L_{25,3}$ $L_{26,3}$ $L_{29,4}$ $L_{31,4}$ $L_{31,5}$ $L_{32,15}$ $L_{34,5}$ $L_{35,6}$ $L_{37,5}$ $L_{38,5}$ $L_{41,13}$ $L_{43,15}$ $L_{44,7}$ $L_{45,7}$ $L_{46,7}$ $L_{46,11}$ $L_{47,7}$ $L_{47,9}$ $L_{49,9}$ $L_{50,9}$ $L_{50,13}$ $L_{51,8}$ $L_{51,16}$ $L_{52,9}$ $L_{53,8}$ $L_{53,10}$ $L_{53,11}$ $L_{54,17}$ $L_{55,13}$ $L_{56,13}$ $L_{57,10}$ $L_{57,20}$ $L_{58,11}$ $L_{59,11}$ $L_{59,14}$ $L_{59,24}$ $L_{61,13}$ $L_{61,16}$ $L_{61,24}$ $L_{62,11}$ $L_{62,13}$ $L_{63,11}$ $L_{64,15}$ $L_{65,12}$ $L_{65,14}$ $L_{65,17}$ $L_{67,12}$ $L_{67,14}$ $L_{67,29}$ $L_{69,20}$ $L_{70,13}$ $L_{71,15}$ $L_{71,16}$ $L_{71,20}$ $L_{71,22}$ $L_{72,19}$ $L_{73,13}$ $L_{73,16}$ $L_{73,17}$ $L_{73,31}$ $L_{74,23}$ $L_{75,17}$ $L_{76,23}$ $L_{76,27}$ $L_{77,18}$ $L_{77,34}$ $L_{78,17}$ $L_{78,29}$ $L_{79,18}$ $L_{79,23}$ $L_{79,28}$ $L_{80,17}$ $L_{82,23}$ $L_{82,31}$ $L_{83,18}$ $L_{83,19}$ $L_{83,22}$ $L_{83,30}$ $L_{84,19}$ $L_{84,25}$ $L_{85,18}$ $L_{85,23}$ $L_{85,26}$ $L_{86,25}$ $L_{87,19}$ $L_{87,23}$ $L_{88,19}$ $L_{89,24}$ $L_{89,25}$ $L_{89,27}$ $L_{91,25}$ $L_{91,27}$ $L_{92,21}$ $L_{92,33}$ $L_{93,25}$ $L_{93,34}$ $L_{94,39}$ $L_{95,29}$ $L_{95,39}$ $L_{97,21}$ $L_{97,26}$ $L_{97,35}$ $L_{98,27}$ $L_{98,41}$ $L_{99,29}$ $L_{100,27}$ $L_{100,39}$ $L_{101,30}$ $L_{101,39}$ $L_{103,37}$ $L_{104,29}$ $L_{105,29}$ $L_{105,31}$ $L_{105,41}$ $L_{106,31}$ $L_{107,41}$ $L_{108,29}$ $L_{109,30}$ $L_{109,45}$ $L_{111,31}$ $L_{111,41}$ $L_{112,31}$ $L_{112,41}$ $L_{115,34}$ $L_{116,45}$ $L_{117,43}$ $L_{119,44}$ $L_{119,50}$ $L_{121,46}$ $L_{123,34}$ $L_{128,47}$ $L_{129,49}$ $L_{131,50}$ $L_{144,55}$

Seifert spaces over S^2:

N	fibers	b	geometry
137	$(2,1)(2,1)(2,1)$	4	elliptic
138	$(2,1)(2,1)(3,1)$	3	elliptic
139	$(2,1)(2,1)(3,2)$	3	elliptic
140	$(2,1)(2,1)(4,1)$	2	elliptic
141	$(2,1)(2,1)(4,3)$	2	elliptic
142	$(2,1)(2,1)(5,1)$	1	elliptic
143	$(2,1)(2,1)(5,2)$	2	elliptic
144	$(2,1)(2,1)(5,3)$	2	elliptic
145	$(2,1)(2,1)(5,4)$	1	elliptic
146	$(2,1)(2,1)(6,1)$	0	elliptic
147	$(2,1)(2,1)(6,5)$	0	elliptic
148	$(2,1)(2,1)(7,2)$	1	elliptic
149	$(2,1)(2,1)(7,3)$	1	elliptic
150	$(2,1)(2,1)(7,4)$	1	elliptic
151	$(2,1)(2,1)(7,5)$	1	elliptic
152	$(2,1)(2,1)(7,6)$	-1	elliptic
153	$(2,1)(2,1)(8,3)$	1	elliptic
154	$(2,1)(2,1)(8,5)$	1	elliptic
155	$(2,1)(2,1)(9,2)$	0	elliptic
156	$(2,1)(2,1)(9,4)$	0	elliptic
157	$(2,1)(2,1)(9,5)$	0	elliptic
158	$(2,1)(2,1)(9,7)$	0	elliptic
159	$(2,1)(2,1)(10,3)$	0	elliptic
160	$(2,1)(2,1)(10,7)$	0	elliptic

N	fibers	b	geometry
161	$(2,1)(2,1)(11,2)$	-1	elliptic
162	$(2,1)(2,1)(11,3)$	0	elliptic
163	$(2,1)(2,1)(11,4)$	0	elliptic
164	$(2,1)(2,1)(11,5)$	-1	elliptic
165	$(2,1)(2,1)(11,6)$	-1	elliptic
166	$(2,1)(2,1)(11,7)$	0	elliptic
167	$(2,1)(2,1)(11,8)$	0	elliptic
168	$(2,1)(2,1)(11,9)$	-1	elliptic
169	$(2,1)(2,1)(12,5)$	0	elliptic
170	$(2,1)(2,1)(12,7)$	0	elliptic
171	$(2,1)(2,1)(13,3)$	-1	elliptic
172	$(2,1)(2,1)(13,4)$	-1	elliptic
173	$(2,1)(2,1)(13,5)$	0	elliptic
174	$(2,1)(2,1)(13,8)$	0	elliptic
175	$(2,1)(2,1)(13,9)$	-1	elliptic
176	$(2,1)(2,1)(13,10)$	-1	elliptic
177	$(2,1)(2,1)(14,3)$	-1	elliptic
178	$(2,1)(2,1)(14,5)$	-1	elliptic
179	$(2,1)(2,1)(14,9)$	-1	elliptic
180	$(2,1)(2,1)(14,11)$	-1	elliptic
181	$(2,1)(2,1)(15,4)$	-1	elliptic
182	$(2,1)(2,1)(15,11)$	-1	elliptic
183	$(2,1)(2,1)(16,7)$	-1	elliptic
184	$(2,1)(2,1)(16,9)$	-1	elliptic
185	$(2,1)(2,1)(17,5)$	-1	elliptic
186	$(2,1)(2,1)(17,7)$	-1	elliptic
187	$(2,1)(2,1)(17,10)$	-1	elliptic
188	$(2,1)(2,1)(17,12)$	-1	elliptic
189	$(2,1)(2,1)(18,5)$	-1	elliptic
190	$(2,1)(2,1)(18,7)$	-1	elliptic
191	$(2,1)(2,1)(18,11)$	-1	elliptic
192	$(2,1)(2,1)(18,13)$	-1	elliptic
193	$(2,1)(2,1)(19,7)$	-1	elliptic
194	$(2,1)(2,1)(19,8)$	-1	elliptic
195	$(2,1)(2,1)(19,11)$	-1	elliptic

N	fibers	b	geometry
196	$(2,1)(2,1)(19,12)$	-1	elliptic
197	$(2,1)(2,1)(21,8)$	-1	elliptic
198	$(2,1)(2,1)(21,13)$	-1	elliptic
199	$(2,1)(3,1)(3,1)$	2	elliptic
200	$(2,1)(3,1)(3,2)$	2	elliptic
201	$(2,1)(3,1)(4,1)$	1	elliptic
202	$(2,1)(3,1)(4,3)$	1	elliptic
203	$(2,1)(3,1)(5,1)$	0	elliptic
204	$(2,1)(3,1)(5,2)$	1	elliptic
205	$(2,1)(3,1)(5,3)$	1	elliptic
206	$(2,1)(3,1)(5,4)$	0	elliptic
207	$(2,1)(3,1)(6,5)$	-1	Nil
208	$(2,1)(3,1)(7,2)$	0	SL_2
209	$(2,1)(3,1)(7,3)$	0	SL_2
210	$(2,1)(3,1)(7,4)$	0	SL_2
211	$(2,1)(3,1)(7,5)$	0	SL_2
212	$(2,1)(3,1)(8,3)$	0	SL_2
213	$(2,1)(3,1)(8,5)$	0	SL_2
214	$(2,1)(3,1)(9,2)$	-1	SL_2
215	$(2,1)(3,1)(9,4)$	-1	SL_2
216	$(2,1)(3,1)(9,5)$	-1	SL_2
217	$(2,1)(3,1)(9,7)$	-1	SL_2
218	$(2,1)(3,1)(10,3)$	-1	SL_2
219	$(2,1)(3,1)(10,7)$	-1	SL_2
220	$(2,1)(3,1)(11,3)$	-1	SL_2
221	$(2,1)(3,1)(11,4)$	-1	SL_2
222	$(2,1)(3,1)(11,7)$	-1	SL_2
223	$(2,1)(3,1)(11,8)$	-1	SL_2
224	$(2,1)(3,1)(12,5)$	-1	SL_2
225	$(2,1)(3,1)(12,7)$	-1	SL_2
226	$(2,1)(3,1)(13,5)$	-1	SL_2
227	$(2,1)(3,1)(13,8)$	-1	SL_2
228	$(2,1)(3,2)(3,2)$	2	elliptic
229	$(2,1)(3,2)(4,1)$	1	elliptic
230	$(2,1)(3,2)(4,3)$	1	elliptic

N	fibers	b	geometry
231	$(2,1)(3,2)(5,1)$	0	elliptic
232	$(2,1)(3,2)(5,2)$	1	elliptic
233	$(2,1)(3,2)(5,3)$	1	elliptic
234	$(2,1)(3,2)(5,4)$	0	elliptic
235	$(2,1)(3,2)(6,1)$	-1	Nil
236	$(2,1)(3,2)(6,5)$	-1	Nil
237	$(2,1)(3,2)(7,2)$	0	SL_2
238	$(2,1)(3,2)(7,3)$	0	SL_2
239	$(2,1)(3,2)(7,4)$	0	SL_2
240	$(2,1)(3,2)(7,5)$	0	SL_2
241	$(2,1)(3,2)(8,3)$	0	SL_2
242	$(2,1)(3,2)(8,5)$	0	SL_2
243	$(2,1)(3,2)(9,2)$	-1	SL_2
244	$(2,1)(3,2)(9,4)$	-1	SL_2
245	$(2,1)(3,2)(9,5)$	-1	SL_2
246	$(2,1)(3,2)(9,7)$	-1	SL_2
247	$(2,1)(3,2)(10,3)$	-1	SL_2
248	$(2,1)(3,2)(10,7)$	-1	SL_2
249	$(2,1)(3,2)(11,3)$	-1	SL_2
250	$(2,1)(3,2)(11,4)$	-1	SL_2
251	$(2,1)(3,2)(11,7)$	-1	SL_2
252	$(2,1)(3,2)(11,8)$	-1	SL_2
253	$(2,1)(3,2)(12,5)$	-1	SL_2
254	$(2,1)(3,2)(12,7)$	-1	SL_2
255	$(2,1)(3,2)(13,5)$	-1	SL_2
256	$(2,1)(3,2)(13,8)$	-1	SL_2
257	$(2,1)(4,1)(4,1)$	0	Nil
258	$(2,1)(4,1)(4,3)$	0	Nil
259	$(2,1)(4,1)(5,2)$	0	SL_2
260	$(2,1)(4,1)(5,3)$	0	SL_2
261	$(2,1)(4,1)(5,4)$	-1	SL_2
262	$(2,1)(4,1)(7,2)$	-1	SL_2
263	$(2,1)(4,1)(7,3)$	-1	SL_2
264	$(2,1)(4,1)(7,4)$	-1	SL_2
265	$(2,1)(4,1)(7,5)$	-1	SL_2

N	fibers	b	geometry
266	$(2,1)(4,1)(8,3)$	-1	SL_2
267	$(2,1)(4,1)(8,5)$	-1	SL_2
268	$(2,1)(4,3)(4,3)$	0	Nil
269	$(2,1)(4,3)(5,1)$	-1	SL_2
270	$(2,1)(4,3)(5,2)$	0	SL_2
271	$(2,1)(4,3)(5,3)$	0	SL_2
272	$(2,1)(4,3)(5,4)$	-1	SL_2
273	$(2,1)(4,3)(7,2)$	-1	SL_2
274	$(2,1)(4,3)(7,3)$	-1	SL_2
275	$(2,1)(4,3)(7,4)$	-1	SL_2
276	$(2,1)(4,3)(7,5)$	-1	SL_2
277	$(2,1)(4,3)(8,3)$	-1	SL_2
278	$(2,1)(4,3)(8,5)$	-1	SL_2
279	$(2,1)(5,1)(5,2)$	-1	SL_2
280	$(2,1)(5,1)(5,3)$	-1	SL_2
281	$(2,1)(5,2)(5,2)$	0	SL_2
282	$(2,1)(5,2)(5,3)$	0	SL_2
283	$(2,1)(5,2)(5,4)$	-1	SL_2
284	$(2,1)(5,2)(7,2)$	-1	SL_2
285	$(2,1)(5,2)(7,3)$	-1	SL_2
286	$(2,1)(5,2)(7,4)$	-1	SL_2
287	$(2,1)(5,2)(7,5)$	-1	SL_2
288	$(2,1)(5,2)(8,3)$	-1	SL_2
289	$(2,1)(5,2)(8,5)$	-1	SL_2
290	$(2,1)(5,3)(5,3)$	0	SL_2
291	$(2,1)(5,3)(5,4)$	-1	SL_2
292	$(2,1)(5,3)(7,2)$	-1	SL_2
293	$(2,1)(5,3)(7,3)$	-1	SL_2
294	$(2,1)(5,3)(7,4)$	-1	SL_2
295	$(2,1)(5,3)(7,5)$	-1	SL_2
296	$(2,1)(5,3)(8,3)$	-1	SL_2
297	$(2,1)(5,3)(8,5)$	-1	SL_2
298	$(3,1)(3,1)(3,1)$	1	Nil
299	$(3,1)(3,1)(3,2)$	1	Nil

N	fibers	b	geometry
300	$(3,1)(3,1)(4,1)$	0	SL_2
301	$(3,1)(3,1)(4,3)$	0	SL_2
302	$(3,1)(3,1)(5,1)$	-1	SL_2
303	$(3,1)(3,1)(5,2)$	0	SL_2
304	$(3,1)(3,1)(5,3)$	0	SL_2
305	$(3,1)(3,1)(5,4)$	-1	SL_2
306	$(3,1)(3,1)(7,2)$	-1	SL_2
307	$(3,1)(3,1)(7,3)$	-1	SL_2
308	$(3,1)(3,1)(7,4)$	-1	SL_2
309	$(3,1)(3,1)(7,5)$	-1	SL_2
310	$(3,1)(3,1)(8,3)$	-1	SL_2
311	$(3,1)(3,1)(8,5)$	-1	SL_2
312	$(3,1)(3,2)(3,2)$	1	Nil
313	$(3,1)(3,2)(4,1)$	0	SL_2
314	$(3,1)(3,2)(4,3)$	0	SL_2
315	$(3,1)(3,2)(5,1)$	-1	SL_2
316	$(3,1)(3,2)(5,2)$	0	SL_2
317	$(3,1)(3,2)(5,3)$	0	SL_2
318	$(3,1)(3,2)(5,4)$	-1	SL_2
319	$(3,1)(3,2)(7,2)$	-1	SL_2
320	$(3,1)(3,2)(7,3)$	-1	SL_2
321	$(3,1)(3,2)(7,4)$	-1	SL_2
322	$(3,1)(3,2)(7,5)$	-1	SL_2
323	$(3,1)(3,2)(8,3)$	-1	SL_2
324	$(3,1)(3,2)(8,5)$	-1	SL_2
325	$(3,1)(4,1)(4,1)$	-1	SL_2
326	$(3,1)(4,1)(4,3)$	-1	SL_2
327	$(3,1)(4,1)(5,2)$	-1	SL_2
328	$(3,1)(4,1)(5,3)$	-1	SL_2
329	$(3,1)(4,3)(4,3)$	-1	SL_2
330	$(3,1)(4,3)(5,2)$	-1	SL_2
331	$(3,1)(4,3)(5,3)$	-1	SL_2
332	$(3,1)(5,2)(5,2)$	-1	SL_2
333	$(3,1)(5,2)(5,3)$	-1	SL_2
334	$(3,1)(5,3)(5,3)$	-1	SL_2
335	$(3,2)(3,2)(3,2)$	1	Nil

N	fibers	b	geometry
336	$(3,2)(3,2)(4,1)$	0	SL_2
337	$(3,2)(3,2)(4,3)$	0	SL_2
338	$(3,2)(3,2)(5,1)$	-1	SL_2
339	$(3,2)(3,2)(5,2)$	0	SL_2
340	$(3,2)(3,2)(5,3)$	0	SL_2
341	$(3,2)(3,2)(5,4)$	-1	SL_2
342	$(3,2)(3,2)(7,2)$	-1	SL_2
343	$(3,2)(3,2)(7,3)$	-1	SL_2
344	$(3,2)(3,2)(7,4)$	-1	SL_2
345	$(3,2)(3,2)(7,5)$	-1	SL_2
346	$(3,2)(3,2)(8,3)$	-1	SL_2
347	$(3,2)(3,2)(8,5)$	-1	SL_2
348	$(3,2)(4,1)(4,1)$	-1	SL_2
349	$(3,2)(4,1)(4,3)$	-1	SL_2
350	$(3,2)(4,1)(5,2)$	-1	SL_2
351	$(3,2)(4,1)(5,3)$	-1	SL_2
352	$(3,2)(4,3)(4,3)$	-1	SL_2
353	$(3,2)(4,3)(5,2)$	-1	SL_2
354	$(3,2)(4,3)(5,3)$	-1	SL_2
355	$(3,2)(5,2)(5,2)$	-1	SL_2
356	$(3,2)(5,2)(5,3)$	-1	SL_2
357	$(3,2)(5,3)(5,3)$	-1	SL_2
358	$(2,1)(2,1)(2,1)(2,1)$	1	Nil
359	$(2,1)(2,1)(2,1)(3,1)$	0	SL_2
360	$(2,1)(2,1)(2,1)(3,2)$	0	SL_2
361	$(2,1)(2,1)(2,1)(4,1)$	-2	SL_2
362	$(2,1)(2,1)(2,1)(4,1)$	-1	SL_2
363	$(2,1)(2,1)(2,1)(4,3)$	-1	SL_2
364	$(2,1)(2,1)(2,1)(5,2)$	-2	SL_2
365	$(2,1)(2,1)(2,1)(5,2)$	-1	SL_2
366	$(2,1)(2,1)(2,1)(5,3)$	-1	SL_2
367	$(2,1)(2,1)(3,1)(3,1)$	-2	SL_2
368	$(2,1)(2,1)(3,1)(3,1)$	-1	SL_2
369	$(2,1)(2,1)(3,1)(3,2)$	-2	$\mathbb{H}^2 \times S^1$
370	$(2,1)(2,1)(3,1)(3,2)$	-1	SL_2
371	$(2,1)(2,1)(3,2)(3,2)$	-1	SL_2

Seifert spaces over $\mathbb{P}^2$:

N	fibers	b	geometry
372	$(2,1)(2,1)$	2	Nil
373	$(2,1)(3,1)$	1	SL_2
374	$(2,1)(3,2)$	1	SL_2
375	$(2,1)(4,1)$	-1	SL_2
376	$(2,1)(4,1)$	0	SL_2
377	$(2,1)(4,3)$	0	SL_2
378	$(2,1)(5,2)$	-1	SL_2
379	$(2,1)(5,2)$	0	SL_2
380	$(2,1)(5,3)$	0	SL_2
381	$(3,1)(3,1)$	-1	SL_2
382	$(3,1)(3,1)$	0	SL_2
383	$(3,1)(3,2)$	-1	$\mathbb{H}^2 \times S^1$
384	$(3,1)(3,2)$	0	SL_2
385	$(3,2)(3,2)$	0	SL_2

Seifert spaces over the Klein bottle:

N	fibers	b	geometry
386		3	Nil

Seifert spaces over the torus:

N	fibers	b	geometry
387		3	Nil

$C_{i,j}$ **(Seifert with base space S^2):**

N	fibers	b	geometry
388	$(2,1)(5,1)(5,1)$	-1	SL_2
389	$(2,1)(4,1)(6,1)$	-1	SL_2
390	$(2,1)(2,1)(8,1)$	-1	elliptic

E_k **(Seifert with base space S^2):**

N	fibers	b	geometry
391	$(2,1)(3,1)(8,1)$	-1	SL_2

Using B_5 (Seifert with base space S^2):

N	fibers	b	geometry
392	$(2,1)(3,1)(11,2)$	-1	SL_2

Sol:

$$393: \ T\begin{pmatrix} 4 & -1 \\ 1 & 0 \end{pmatrix}, \quad 394: \ T\begin{pmatrix} -4 & 1 \\ -1 & 0 \end{pmatrix}$$

N	fibers over D	matrix	fibers over D
395	$(2,1)(2,1)$	$\begin{pmatrix} 1 & 3 \\ 0 & -1 \end{pmatrix}$	$(2,1)(2,1)$
396	$(2,1)(2,1)$	$\begin{pmatrix} 2 & 3 \\ -1 & -1 \end{pmatrix}$	$(2,1)(2,1)$
397	$(2,1)(2,1)$	$\begin{pmatrix} 2 & -1 \\ -1 & 0 \end{pmatrix}$	$(2,1)(2,1)$
398	$(2,1)(2,1)$	$\begin{pmatrix} 1 & 2 \\ 1 & 1 \end{pmatrix}$	$(2,1)(2,1)$
399	$(2,1)(2,1)$	$\begin{pmatrix} 1 & 2 \\ 0 & 1 \end{pmatrix}$	$(2,1)(2,1)$
400	$(2,1)(2,1)$	$\begin{pmatrix} 1 & -1 \\ 1 & 0 \end{pmatrix}$	$(2,1)(2,1)$
401	$(2,1)(2,1)$	$\begin{pmatrix} 1 & -1 \\ 0 & -1 \end{pmatrix}$	$(2,1)(2,1)$

Non-geometric graph manifolds:

N	fibers over D	matrix	fibers over D
402	$(2,1)(2,1)$	$\begin{pmatrix} 1 & 2 \\ 0 & -1 \end{pmatrix}$	$(2,1)(3,1)$
403	$(2,1)(2,1)$	$\begin{pmatrix} 1 & 2 \\ -1 & -1 \end{pmatrix}$	$(2,1)(3,1)$
404	$(2,1)(2,1)$	$\begin{pmatrix} 1 & -1 \\ 0 & 1 \end{pmatrix}$	$(2,1)(3,1)$
405	$(2,1)(2,1)$	$\begin{pmatrix} 1 & -1 \\ -1 & 0 \end{pmatrix}$	$(2,1)(3,1)$
406	$(2,1)(2,1)$	$\begin{pmatrix} 0 & 1 \\ 1 & 1 \end{pmatrix}$	$(2,1)(3,1)$

N	fibers over D	matrix	fibers over D
407	$(2,1)(2,1)$	$\begin{pmatrix} 0 & 1 \\ -1 & 0 \end{pmatrix}$	$(2,1)(3,1)$
408	$(2,1)(2,1)$	$\begin{pmatrix} 1 & 2 \\ 0 & -1 \end{pmatrix}$	$(2,1)(3,2)$
409	$(2,1)(2,1)$	$\begin{pmatrix} 1 & 2 \\ -1 & -1 \end{pmatrix}$	$(2,1)(3,2)$
410	$(2,1)(2,1)$	$\begin{pmatrix} 1 & -1 \\ 0 & 1 \end{pmatrix}$	$(2,1)(3,2)$
411	$(2,1)(2,1)$	$\begin{pmatrix} 1 & -1 \\ -1 & 0 \end{pmatrix}$	$(2,1)(3,2)$
412	$(2,1)(2,1)$	$\begin{pmatrix} 0 & 1 \\ 1 & 1 \end{pmatrix}$	$(2,1)(3,2)$
413	$(2,1)(2,1)$	$\begin{pmatrix} 0 & 1 \\ -1 & 0 \end{pmatrix}$	$(2,1)(3,2)$
414	$(2,1)(2,1)$	$\begin{pmatrix} 0 & 1 \\ -1 & -1 \end{pmatrix}$	$(2,1)(4,1)$
415	$(2,1)(2,1)$	$\begin{pmatrix} 0 & 1 \\ 1 & 0 \end{pmatrix}$	$(2,1)(4,1)$
416	$(2,1)(2,1)$	$\begin{pmatrix} 0 & 1 \\ -1 & -1 \end{pmatrix}$	$(2,1)(4,3)$
417	$(2,1)(2,1)$	$\begin{pmatrix} 0 & 1 \\ 1 & 0 \end{pmatrix}$	$(2,1)(4,3)$
418	$(2,1)(2,1)$	$\begin{pmatrix} 0 & 1 \\ -1 & -1 \end{pmatrix}$	$(2,1)(5,2)$
419	$(2,1)(2,1)$	$\begin{pmatrix} 0 & 1 \\ 1 & 0 \end{pmatrix}$	$(2,1)(5,2)$
420	$(2,1)(2,1)$	$\begin{pmatrix} 0 & 1 \\ -1 & -1 \end{pmatrix}$	$(2,1)(5,3)$
421	$(2,1)(2,1)$	$\begin{pmatrix} 0 & 1 \\ 1 & 0 \end{pmatrix}$	$(2,1)(5,3)$
422	$(2,1)(2,1)$	$\begin{pmatrix} 0 & 1 \\ -1 & -1 \end{pmatrix}$	$(3,1)(3,1)$
423	$(2,1)(2,1)$	$\begin{pmatrix} 0 & 1 \\ 1 & 0 \end{pmatrix}$	$(3,1)(3,1)$
424	$(2,1)(2,1)$	$\begin{pmatrix} 0 & 1 \\ -1 & -1 \end{pmatrix}$	$(3,1)(3,2)$

N	fibers over D	matrix	fibers over D
425	$(2,1)(2,1)$	$\begin{pmatrix} 0 & 1 \\ 1 & 0 \end{pmatrix}$	$(3,1)(3,2)$
426	$(2,1)(2,1)$	$\begin{pmatrix} 0 & 1 \\ -1 & -1 \end{pmatrix}$	$(3,2)(3,2)$
427	$(2,1)(2,1)$	$\begin{pmatrix} 0 & 1 \\ 1 & 0 \end{pmatrix}$	$(3,2)(3,2)$
428	$(2,1)(3,1)$	$\begin{pmatrix} 1 & 1 \\ 0 & -1 \end{pmatrix}$	$(2,1)(3,1)$
429	$(2,1)(3,1)$	$\begin{pmatrix} 0 & 1 \\ 1 & 0 \end{pmatrix}$	$(2,1)(3,1)$
430	$(2,1)(3,1)$	$\begin{pmatrix} 1 & 1 \\ -1 & 0 \end{pmatrix}$	$(2,1)(3,1)$
431	$(2,1)(3,1)$	$\begin{pmatrix} 1 & 1 \\ 0 & -1 \end{pmatrix}$	$(2,1)(3,2)$
432	$(2,1)(3,1)$	$\begin{pmatrix} 0 & 1 \\ -1 & -1 \end{pmatrix}$	$(2,1)(3,2)$
433	$(2,1)(3,1)$	$\begin{pmatrix} 0 & 1 \\ 1 & 0 \end{pmatrix}$	$(2,1)(3,2)$
434	$(2,1)(3,1)$	$\begin{pmatrix} 1 & 1 \\ -1 & 0 \end{pmatrix}$	$(2,1)(3,2)$
435	$(2,1)(3,2)$	$\begin{pmatrix} 0 & 1 \\ 1 & 0 \end{pmatrix}$	$(2,1)(3,2)$
436	$(2,1)(3,2)$	$\begin{pmatrix} 1 & 1 \\ -1 & 0 \end{pmatrix}$	$(2,1)(3,2)$

Summarizing table:

lens	136
elliptic	78
flat	0
Nil	14
$\mathbb{H}^2 \times S^1$	2
SL_2	162
Sol	9
other graph	35
hyperbolic	0
total	436