1123-57-225 Anar Akhmedov<sup>\*</sup> (akhmedov<sup>@</sup>umn.edu), Minneapolis, MN 55455, and Naoyuki Monden (monden@isc.osakac.ac.jp). Genus two Lefschetz fibrations via lantern substitution. Preliminary report.

We will construct a family of genus two Lefschetz fibrations X(n) over two sphere by applying a single lantern substitution to the twisted fiber sums of Matsumoto's genus two Lefschetz fibration. We will compute the fundamental group of X(n)and show that it is isomorphic to the trivial group if n = -3, -1,  $\mathbb{Z}$  if n = -2, and  $\mathbb{Z}_{|n+2|}$  for all integers  $n \neq -3, -2, -1$ . This is a joint work with Naoyuki Monden. (Received August 27, 2016)